

1725/2825
FIGURE 1532

MVRKPVVSTISKGGYLQGNVNGRLPSLGNKEPPGQEKVQLKRKVTLRGVSIIIGTIIGAGIFISPKGVLQNTGS
VGMSLTIWTVCGVLSLFGALSYAELGTTIKKSGGHYTYILEVFGLPAFVRVWVELLIIRPAATAVISLAFGRYI
LEPFFIQCEIPELAIKLITAVGITVVMVLNSMSVSWRSARIQIFLTFCKLTAILIIIVPGVMQLIKGQTQNFKDAF
SGRDSSITRLPLAFYYGMYAYAGWFYLNFTVEEVENPEKTIPLAICISMAIVTIGYVLTNVAYFTTINAEELLS
NAVAVTFSERLLGNFSLAVPIFVALSCFGSMNGGVFAVSRLFYVASREGHLPEILSMIHVRKHTPLPAVIVLHPL
TMIMLFSGDLDSSLNFLSFARWLFIGLAVAGLIYLRKCPDMHRPFKVPLFIPALFSFTCLFMVALSLYSDFST
GIGFVITLTGVPAYYLFIIWDKKPRWFRIMSGFLALMPAQACDM

1726/2825
FIGURE 1533

CTCGAGGCCACGAAGGCCCCCGGGGTCAGCAGAGGGGCGCTCACGCTCTCGCCACCCACCTCGCTTTCTCACCCC
GCGCTTCCCGGCTGGGTTTTTAGTCTTCCCTTGGAGCGCTCTCTGGCCTCCGCTCCGCCAGGGAGCGGAAGGCG
GAGACAGCGAGACTGGCCAGGGGGGAGGAAAGAGGACGCGTGTGGGCAAGGGGGACAACGGGATGTCCACGGGCT
CGGTGAGTGATCCGGAGGAGATGGAGCTTCGGGGGCTGCAGCGGGAGTACCCGGTCCCCGCTCCAAGAGGCCGC
CCCTCCGCGGCGTAGAGCGCAGCTACGCCTCGCCAGTGACAACTCGTCGGCAGAGGAGGAGGACCCCGACGGCG
AGGAGGAGCGCTGCGCTCTGGGCACAGCCGGCAGCGCGGAAGGCTGCAAGAGGAAGCGGCCCCGTGTGGCTGGGG
GCGGCGGCGCAGGTGGTAGCGCGGGCGGTGGTGGCAAGAAGCCCCCTCCCGCCAAGGGCTCAGCCGCAGAGTGCA
AGCAGTCGCAGCGGAACGCGGCCAACGCCCCGTGAGCGTGCCCGGATGCGCGTGCTGAGCAAAGCCTTCTCCAGGC
TCAAGACCAGCCTGCCCTGGGTGCCCCCGACACTAAGCTCTCCAAGCTGGACACGCTCCGGCTGGCTTCCAGTT
ACATCGCTCACCTGCGGCAGCTGTTGCAGGAGGACCGCTATGAGAACGGCTACGTGCACCCAGTGAACCTGACAT
GGCCATTCTGTGGTCTCGGGAAGACCGGCCTCTGCACCAAAGAAGTTTCCGCAGCCAACAGACTATGTGGAACCAC
CGCTTAAATCGGACTGGAACCTCACTTGATGGGATTATTCGTTAAATGCGAGTGTTTGGGGGCCACGGAGAGAAGG
GAGAGCTCGTGAGATGGGAAGAAGTTTCCGCTGGATTCTCCTTGACCCTTCCCCTTGCCCTGGAACCTGTGATCGT
GACAGGTGGCGGGTGTGGCTGTCACTGCACAGCGCCACGGCTACAGCTGCGCCGGATCTGGGCGACCACGTTTT
GCCTCTCCAAAAAGAGCTTCCCTTTCGTGACGAGACGCGGACGCAGGTCCACCCTCGGGCCCTAGCTCTGTAGACT
AACTCTCGGCTGCTGCCCCAGCCGCGCCAGACAGCCACGGATCCGTTCTCAGCGGAGCCAGATTTCATCGCACA
CGTGCGGGACGGTTCCACACAGCCCCGGCCTTTTCGCGGTGACACAATGGTTAGGGAACGGTTAGACGCGCTCTAC
ATCCGCTTTAAAGACAGAGGTCTAGACGTGAGATCCGCGTCGGGACAGGGTTTTTAAGTGACAAAGAAGGGCGAGT
GGCTTCTCTGGGCCGGGTTTCGTACTCCAGCACAGCGCCCTTCTAACGGGCGGGAGGAAGGCCGCTGCTCGCAGGG
CTAGGTGGAGACACACTTCCCAGATCACCGCAGGCGGGTTTTACCCGGAGAGCTCTGGCCGTTTCGGCCTCCCTGC
CGGGTGGCTTCTTCAATCCCGTCTCCTTCCCAAGCTCCCGGCTTTTTTCTAATCAGGCAGGCGTCTGTCAACCCTC
TCCACTTCTGGGCTGAAGCCTCCCCAAGCCCCGTGCGCCAACCTGTGTGGGTCTTCTTCGGGCCTCCCTCTCCG
CCCCGCTCCTGCTCCTACCTGCAGCACCCCCAGCTCCGACTCCAGACTCTCTGCATCAGGTCTCCCCACTCCAG
CTCCGGGCGCCCCAACTCCAACACCACGTCTGCGCGCAGGTTCTTCCCCGCGCGGAGGAGCGCGCAGGGTGGG
CGGCTTACCATAGCAAGTGATCCTGCGATAGGGAACGCGCCCTTGCCCCGAGGCTGCACTACCACAGGAAATAAC
GGCCTTCGTGGCCTCGAGTTTTTTATGAATAATAAAACGCGCTGTAAAAACCGTGGACGGAAAA

1727/2825
FIGURE 1534

MSTGSVSDPEEMELRGLQREYPVPASKRPPLRGVERSYASPSDNSSAEEDPDGEEERCALGTAGSAEGCKRKR
RVAGGGGAGGSAGGGGKKPLPAKGSAAECKQSQRNAANARERARMRVLSKAFSRLKTSLEWVPPDTKLSKLDTLR
LASSYIAHLRQLLQEDRYENGYVHPVNLTWPFVVSGRPASAPKKFPQPTDYVEPPLKSDWNSLDGIIR

1728/2825
FIGURE 1535

GCATATACTGTCATCATCTTGGAAGAAAAAGGCTGAGAACGTAAACTGAGGACAGAGGAGGAAAGCAGGGTGAC
CCCTGATGTTGCCCTAGAAAATGGAAAACAAAACACAGCAAAACAGAAAACAGAAGATCTGACTCTGCCTTTAG
CCAGGAAAACAGTTTGGGGGAGTAAAAAGTATTAGGGAAAAGAGTGGGCATTTTGCCTGGAAAAAAGGTTTCTAG
AGCCATCTGGGCTTTCCGGGAACCTGGACCAGACTCTGGCCCAGTAGGATGTCCCCGTGTCTCTCCCAGCAGAGC
AGGAACAGGGTGATACAGCTGTCCACTTCAGAGCTAGGAGAGATGGAAGTGAAGTGGCAGGAGATCATGTCCATC
ACCGAGCTGCAGGGTCTGAATGCTCCAAGTGAGCCATCATTTGAGCCCCAAGCCCCAGCTCCATACCTTGGACCT
CCACCACCCACAACCTTACTGCCCCTGCTCAATCCACCAGATTCTGGCTTCCCCTTCTCCACCACCTTATGAG
CTCCCAGCATCCACATCCCATGTCCCAGATCCCCCATACTCCTATGGCAACATGGCCATAACAGTCTCCAAGCCA
CTGAGCCTCTCAGGCCTGCTCAGTGAGCCGCTCCAAGACCCCTTAGCCCTCCTGGACATTGGGCTGCCAGCAGGG
CCACCTAAGCCCCAAGAAGACCCAGAATCCGACTCAGGATTATCCCTCAACTATAGCGATGCTGAATCTCTTGAG
CTGGAGGGGACAGAGGCTGGTCGGCGGCGCAGCGAATATGTAGAGATGTACCCAGTGGAGTACCCCTACTCACTC
ATGCCCCAACTCCTTGGCCCCACTCCAACCTATACCTTGCCAGCTGCTGAGACCCCTTGGCCTTAGAGCCCTCCTCA
GGCCCTGTGCGGGCTAAGCCCCTGCACGGGGGGAGGCAGGGAGTGGGATGAACGTCGGGCCTTGGCCATGAAG
ATTCTTTTCTACGGACAAGATTGTCAACTTGCCGGTAGATGACTTTAATGAGCTATTGGCAAGGTACCCGCTG
ACAGAGAGCCAGCTAGCGCTAGTCCGGGACATCCGACGACGGGGCAAAAACAAGGTGGCAGCCCAGAACTGCCGC
AAGAGGAAGCTGGAACCATTTGTGCAGCTGGAGCGGGAGCTGGAGCGGCTGACCAATGAACGGGAGCGGCTTCTC
AGGGCCCGCGGGGAGGCAGACCGGACCCTGGAGGTCATGCGCCAACAGCTGACAGAGCTGTACCGTGACATTTTC
CAGCACCTTCGGGATGAATCAGGCAACAGCTACTCTCCTGAAGAGTACGCGCTGCAACAGGCTGCCGATGGGACC
ATCTTCCTTGTGCCCCGGGGGACCAAGATGGAGGCCACAGACTGAAGCTGGCCCAGAGGGGTGGAAGTCTGATGG
GATTTCTTTCATTCCCTTCTGATAAAGGTACTCCCCAACCCCTGAGTCCCAGAAGGAGCTGAGTTCTCTAGACCAG
AAGAGGATGACAATGGCAACAAGTGTGTTGGAAGTTCCAAGGTGTGTTCAAAGAGGCTTGCCCTTGAGGGAGGGCTG
GAATCTGTCTTCCCTGACTCGGCTCCTCAGGTCTTTAGCCTCCACCTTGTCTAAGCTTTGGTCTATAAAGTGCGC
TACAGAAAAAAAAAAAAAAAAAAAAA

1729/2825
FIGURE 1536

MSPCPPQQSRNRVIQLSTSELGEMELTWQEIMSITELQGLNAPSEPSFEPQAPAPYLGPPPPPTTYCPCSIHPDSG
FPLPPPPYELPASTSHVPDPPYSYGNMAIPVSKPLSLSGLLSEPLQDPLALLDIGLPAGFPKPQEDPESDSGLSL
NYSDAESLELEGTEAGRRRSEYVEMYPVEYPYSLMPNSLAHSNYTLPAETPLALEPSSGPFVRAKPTARGEAGSR
DERRALAMKIPFPTDKIVNLPVDDFNELLARYPLTESQLALVRDIRRRGKNKVAAQNCRKRKLETIVQLERELER
LTNERERLLRARGEADRTLEVMRQQLTELYRDIHQHLRDESGNSYSPEEYALQQAADGTIFLVPRGTKMEATD

1730/2825
FIGURE 1537

CTTCCTCCCTCCCGCTCGCTTCTTCTCACGCCGGGAGCAGGCTCGCGCCTCGCACCGCTGCCCCGCGAGCAGCTC
CTCTTCTCCCGAGGCGCGCGGGGCGCCCCGCGAGCCCCGCGGCTGAGACCCGCGAGCCTGGAGGAGGGCTGTCC
GGGGCTTTGGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCTGTATTGACATCAAA
AAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAACAAATG
TGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAA
GTATATTTCTCAGTTTAAAAATCCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTTAATGCATCA
GTTTGATGATGCCGTGAGTATCACTGTGGCAATACTATTCTGTTTACAGTTGCCTTTGTTTCAGGAATATCGTTC
AGAAAAATCTCTTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATTGGAGCA
TCACTTGCCCCGAGACTTGTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTCCTGCTGACTTACG
CTTGTTTGAGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCTTGTTCTAAGGTGAC
AGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGCATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAG
ATGTGGCAAAGCAAAGGGTGTGTGTCATTGGAACAGGAGAAAATTCTGAATTTGGGGAGGTTTTTAAAAATGATGCA
AGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTCTCTTTACTCCTT
TGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTATTAGTGT
AAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTACAGTGACGCTAGCTCTTGGTGTATGAG
AATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCTATTGTTGAACTCTGGGCTGCTGTAATGTGATTGTTC
AGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCATGCTGA
GGTTACTGGAGTTGGCTATAATCAATTTGGGGAAAGTGATTGTTGATGGTGATGTTGTTTCATGGATTCTATAACCC
AGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAAACAATACTCTAATGGGGAA
GCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACATCAGAAA
AGCTGAATACCTTTTTAGCTCTGAGCAAAAAGTGGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGACAGACC
AGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGTACTACATACCAGAGCAAAGGGCAGAC
CTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACTCAGAGT
TCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAG
AACTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGATTCACA
GGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGAAGAAAT
AGATGCAATGGATGTTTCAGCAGCTTTCACAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCCAAGGCA
CAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTTCAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGC
AGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGCAGCAGA
CATGATCCTAGTGGATGATGATTTTCAAACCATAAATGCTGCAATCGAAGAGGGTAAAGGGATTATAATAACAT
TAAAAATTTCTGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATTAATGAA
CTTCTCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCAGAGCCT
TGGAGTAGAACCAGTGGATAAAGATGTCATTTCGTAAACCTCCTCGCAACTGGAAAGACAGCATTTTGACTAAAAA
CTTGATACTTAAATACTTGTTTCATCAATAATCATTGTTTGTGGGACTTTGTTTGTCTTCTGGCGTGAGCTACG
AGACAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTGACATGTTCAATGCACT
AAGTTCCAGATCCCAGACCAAGTCTGTGTTTGGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGCAGTTCT
TGGATCCATCATGGGACAATTACTAGTTATTTACTTCTCCTCGCTTCAGAAGGTTTTTCAGACTGAGAGCCTAAG
CATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAAGGTTGA
AAGGAGCAGGGAAAAGATCCAGAAGCATGTCTGGCTCTGGGAGAGGAGTGGACAGCAGCTGGTTGAGATACATCC
CCATCTGGAGACAGGACTGCCACTGACAGAAGATGTGAGCTGTGTCTAAGTCCAGTCTTGTGCCCAGCCGTGTCT
GCGCCTTCACTCTTTGGAACCTCTGCATACAACATCTTAGCACCATCTTCTGCAGCTCTTCTTACCTAAATAAA
GAAACAGCCCCAAGGGCAGTATTTCTAAAAGCACTGTAACAGCTTTTCAATTTCTCCACATATACTACAAATTCTA
TAAAGAAAAGAAATTAATTTAAAAAACTAAGATGTTTTTCTCTTCTGGCTTCATAAATGCCTTGCTGTATAAATT
GAAATATTGATACTGAACTGTCTTTTTAATGATGACCTAACCTTATTCAACCCATCGGAATTTACTTTTTCCCTG
AAATAAGATCTTTTCCACTGGTCTACTACCTGACCATAAACATGTCTGCATTTGAATTCTCTAAACCTAAATCT
GTGTCTATGAAAAATACAAATGACTATTAAATATTATCTCTTTACTGTTCTCTTTCACCGAAAAA

1731/2825
FIGURE 1538

MIPVLTSKKASELPVSEVASILQADLQNGLNKCEVSHRRAFHGWNEFDISEDEPLWKKYISQFKNPLIMLLLASA
VISVLMHQFDDAVSITVAILFVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHTLARDLVPGDTVCLSVG
DRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAPOPAATNGDLASRSNIAFMGTLVRCGKAKGVVIGTGENSEF
GEVFKMMQAEAEAPKTPLQKSMDDLKGQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTV
TLALGVMRMVKKRAIVKKLPIVETLGCCNVICSDKTGTLTKNEMTVTHIFTSDGLHAEVTGVGYNQFGEVIVDGD
VVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTGALIALAMKMGLDGLQQDYIRKAEYFSSSEQKWMVAVKCV
HRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVLALASGPELGQLTFLGL
VGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAV
FYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEE
GKGIYNNIKNFVRFQLSTISIAALTLISLATLMNFPNPLNAMQILWINIIMDGPPAQSLGVEFPVDKDVIRKPPRNW
KDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRDTTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
RMFCYAVLGSI MGQLLVYFPPLQKVFTESLSILDLLFLLGLTSSVCIVAEIIKKVERSREKI QKHVWLWERSG
QQLVEIHPHLETGLPLTEDVSCV

1732/2825
FIGURE 1539

GGGAGGAGAGAAAAGCC**ATG**GCCGACAAGGTCCTGAAGGAGAAGAGAAAGCTGTTTATCCGTTCCATGGGTGAAG
GTACAATAAATGGCTTACTGGATGAATTATTACAGACAAGGGTGCTGAACAAGGAAGAGATGGAGAAAAGTAAAAC
GTGAAAATGCTACAGTTATGGATAAGACCCGAGCTTTGATTGACTCCGTTATTCCGAAAGGGGCACAGGCATGCC
AAATTTGCATCACATACATTTTGTGAAGAAGACAGTTACCTGGCAGGGACGCTGGGACTCTCAGCAGATCAAACAT
CTGGAAATTACCTTAATATGCAAGACTCTCAAGGAGTACTTTCTTCCTTTCCAGCTCCTCAGGCAGTGCAGGACA
ACCCAGCTATGCCACATCCTCAGGCTCAGAAGGGAATGTCAAGCTTTGCTCCCTAGAAGAAGCTCAAAGGATAT
GGAAACAAAAGTCGGCAGAGATTTATCCAATAATGGACAAGTCAAGCCGCACACGTCTTGCTCTCATTATCTGCA
ATGAAGAATTTGACAGTATTCCTAGAAGAACTGGAGCTGAGGTTGACATCACAGGCATGACAATGCTGCTACAAA
ATCTGGGGTACAGCGTAGATGTGAAAAAAAATCTCACTGCTTCGGACATGACTACAGAGCTGGAGGCATTTGCAC
ACCGCCCAGAGCACAAGACCTCTGACAGCACGTTCTGGTGTTCATGTCTCATGGTATTCGGGAAGGCATTTGTG
GGAAGAAACACTCTGAGCAAGTCCCAGATATACTACAACCTCAATGCAATCTTTAACATGTTGAATACCAAGA
GCCCCAAGTTTGAAGGACAAACCGAAGGTGATCATCATCCAGGCCTGCCGTGGTGACAGCCCTGGTGTGGTGTGGT
TTAAAGATTTCAGTAGGAGTTTCTGGAAACCTATCTTTACCAACTACAGAAGAGTTTGAGGATGATGCTATTAAGA
AAGCCCACATAGAGAAGGATTTTATCGCTTTCTGCTCTTCCACACCAGATAATGTTTCTTGAGACATCCCACAA
TGGGCTCTGTTTTTATTGGAAGACTCATTGAACATATGCAAGAATATGCCTGTTCTGTGATGTGGAGGAAATTT
TCCGCAAGGTTTCGATTTTCAATTTGAGCAGCCAGATGGTAGAGCGCAGATGCCACCCTGAAAGAGTGACTTTGA
CAAGATGTTTCTACCTCTTCCCAGGACAT**TAAA**AATAAGGAACTGTATGAATGTCTGTGGGCAGGAAGTGAAGAG
ATCGTTCTGTAAAAGGTTTTTGAATTATGTCTGCTGAATAATAAACTTTTTTTGAAATAATAAATCTGGTAGAA
AAATGAAAAAAAAAAAAAAAAAAAA

1733/2825
FIGURE 1540

MADKVLKEKRKLFIRSMGEGTINGLLDELLQTRVLNKEEMKVKRENATVMDKTRALIDSVIPKGAQACQICITY
ICEEDSYLAGTLGLSADQTSIGNYLNMQDSQGVLSFFAPQAVQDNPAMPTSSGSEGNVKLCSLEEAQRIWKQKSA
EIYPIMDKSSRTRLALIICNEEFDSIPRRTGAEVDITGMTMLLQNLGYSVDVKKNLTASDMTTELEAFahrPEHK
TSDSTFLVFMShGIREGICGKKHSEQVPDILQLNAIFNMLNTKNCPSLKDKPKVIIIQACRGDSPGVVWFKDSVG
VSGNLSLPTTEEFEDDAIKKAHIEKDFIAFCSSTPDNVSWRHPTMGSVFIGRLIEHMQEYACSCDVEEIFRKVRF
SFEQPDGRAQMPTTERTVTLTRCFYLFPGH

1734/2825
FIGURE 1541

GCGGGGCTGGCACCCGGGCCGAGGCTCTGATTCTGGGGGGAGGCCGACTCCACCCTGGCTGGAGGAACTGGGTGC
TCCTGCCCCGCTGGCCCCCTCGCGCGTGAGGATCTATCTCAGGCTAAGAAATGGCATTTCAAAAGGCAGTGAAAAGG
ACGATTCTTGTGGAGGAGGTGCTCTTGCAACTGTTTTAGGACTTTCTCAGTTTGCTCATTACAGAAGGAAACAA
ATGAACCTGGCCTATGTTAAAGCAGCAGACTGCATTTCAGAACCAGTTAACAGGGAGCCTCCTTCCAGAGAAGCT
CAGCTACTGACTTTGCAAAACACATCTGAATTTGATATCCTTGTTATTGGAGGAGGAGCAACAGGAAGTGGCTGT
GCGCTAGATGCTGTCCAGAGGACTAAAAACAGCCCTTGTAAGAAAGAGATGATTTCTCATCAGGGACCAGCAGC
AGAAGCACTAAATTGATCCATGGTGGTGTGAGATATCTGCAGAAGGCCATCATGAAGTTGGATATTGAGCAGTAT
AGGATGGTAAAAGAAGCCCTTCATGAGCGTGCCAACCTGCTAGAAATTGCTCCCCATTTATCAGCTCCATTGCCT
ATAATGCTTCCAGTTTACAAGTGGTGGCAGTTACCTTACTACTGGGTAGGAATCAAGCTGTATGATTTGGTTGCA
GGAAGCAATTGCCTAAAAGCAGTTATGTCTCAGCAAAATCAAGAGCCCTTGAACATTTCCCAATGCTCCAGAAG
GACAACTGGTAGGAGCAATTGTCTACTATGACGGACAACATAACGATGCACGGATGAACCTTGCCATTGCTCTG
ACTGCTGCCAGGTATGGGGCTGCCACAGCCAATTACATGGAGGTAGTGAGCTTGCTCAAGAAGACAGACCCCCAG
ACAGGGAAAGTGCATGTGAGCGGCGCACGGTGCAAGGATGTCTCAGGGCAGGAATTTGACGTGAGAGCCAAA
TGTGTTATCAATGCCACGGGACCTTTACGGACTCTGTGCGCAAAATGGATGATAAAGACGCAGCAGCTATCTGC
CAGCCAAGTGCTGGTGTCCATATTGTGATGCCTGGTTATTACAGCCCAGAGAGCATGGGACTTCTTGACCCAGCG
ACCAGTGATGGGCGAGTTATTTTCTTCTTACCCTGGCAAAAAGATGACGATCGCTGGCACTACTGATACTCCA
GATGTTACACACCATCCAATTCCTTCAGAAGAAGATATCAACTTCATTTTGAATGAAGTGCGTAAATACCTGAGT
TGTGATGTTGAAGTGAGAAGAGGGGATGTCTGGCAGCATGGAGTGGAATCCGTCCTCTTGTTACAGACCCCCAA
TCTGCAGATACTCAGTCTATCTCCCGAAATCATGTTGTTGATATCAGTGAGAGTGGCCTTATTACTATAGCAGGT
GGAAAGTGGACAACCTTATCGGTCTATGGCAGAAGATACCATAAATGCTGCTGTCAAAACTCATAATTTAAAAGCA
GGACCAAGTAGAACAGTTGGGCTTTTCTTCAAGGGGGTAAAGATTGGAGCCCCACACTCTACATTAGGCTTGTG
CAGGATTATGGACTTGAAAGCGAGGTGGCACAGCATCTTGCCGCCACCTATGGTGATAAGGCCTTTGAGGTGGCC
AAAATGGCAAGTGTGACTGGCAAAAGGTGGCCTATTGTTGGAGTACATCTTGTTGTCAGAATTTCCATATATTGAA
GCAGAGGTGAAATATGGGATTAAGGAGIATGCCTGCACTGCTGTGGATATGATTTACGTCGTACTCGCCTGGCC
TTTCTAAATGTCCAGGCAGCAGAGGAAGCCCTACCCAGGATTGTTGAACTGATGGGCAGGGAAGTGAATTGGGAT
GATTATAAGAAGCAGGAACAACCTTGAAACAGCCAGGAAGTTTCTATATTATGAAATGGGCTATAAATCTCGATCA
GAACAGTTAACAGATCGCTCTGAAATTAGCCTACTGCCTTCAGACATTGACAGGTATAAGAAGAGATTTCAATAAG
TTTGATGCAGACCAGAAAGGCTTTATTACCATTGTTGATGTTGAGCGTGTATTAGAGAGTATCAATGTCCAAATG
GATGAAAATACACTCCATGAAATTCTAAATGAAGTTGATTTGAATAAAAATGGACAGGTTGAACTCAATGAATTT
TTGCAGCTGATGAGTGCTATTCAAAAAGGAAGGGTATCTGGAAGCCGGCTTGCTATACTAATGAAAACGCAGAA
GAGAACCTCGACAGAAGAGTTCCAATTCCAGTGGACCGTAGTTGTGGAGGATTGTGAGTCTGGGCAGTAAATCCA
CAGCCAACAAACATAGAAACGACAAATCACCATGTAACAACCAGAGATGACTGAAACCACTCTGAAATAATGAAT
GTGGATAGCTGCCTTTTTTAACTAGAAAACATTCCAAAACTTTAAGGTGTTGGTGTATTTGCCAGCTTTATTT
GCTGTACTTTATTTGTATTTGCCATTGAGTCTAGCTTTTAAGTATATTTTTTCTTTTTCTATTTTCAATGCAC
ATTAGTTTTGCATCTGTTTTGTGACCTGTTAGATGTGACACATTCTTTTTTGTATTCCCTTATTC

1735/2825
FIGURE 1542

MAFQKAVKGTILVGGGALATVLGLSQFAHYRRKQMNLAYVKAADCISEPVNREPPSREAQLLTQLNTSEFDILVI
GGGATGSGCALDAVTRGLKTALVERDDFSSGTSSRSTKLIHGGVRYLQKAIMKLDIEQYRMVKEALHERANLLEI
APHL SAPLPIMLPVYKWWQLPYYWVGKLYDLVAGSNCLKSSYVLSKSRAL EHF PMLQKDKLVGAIVYYDGQHND
ARMNLAIALTAARYGAATAN YMEVV SLLKKTD PQTGKVHVSGARCKDVL TGQEF DVRAKCVINATGPFTDSVRKM
DDKDAAAICQPSAGVHIVMPGYYSPEMGLLDPATSDGRVIFFLPWQKMTIAGTTDPTDVTTHHP IPSEEDINFI
LNEVRNYLSCDVEVRRGDVLAAWSGIRPLVTDPKSADTQSI SRNHVVDI SEGLITIAGGKWTTYRSM AEDTINA
AVKTHNLKAGPSRTVGLFLQGKDWSP TLYIRLVQDYGLESEVAQH LAATYGDKAFEVAKMASVTGKRWP IVGVH
LVSEFPYIEAEVKYGIKEYACTAVDMISRRLAFLNVQAAEEALPRIVELMGRELNWDDYKKQE QLETARKFLY
YEMGYKSRSEQLTDRSEISLLPSDIDRYKKRFHKFDADQKGFITIVDVQRVLESINVQMDENTLHEILNEVDLNK
NGQVELNEFLQLMSAIQKGRVSGSRLAILMKTA EENLDRRVP IPVDRSCGGL

1736/2825
FIGURE 1543

AAATGGTGAAAGGGGGGGAGGGGAGAAAAGAAAAAAAAAAAAAGAAAGGGGAAAGGGGGGAAAAATAAGAAAAAG
CGAGACAGAGGCGCTGCCGCGTCCGCTCGCGGGGAAGGCTGGGGTCGGCCGGGTGCTAGGCCGGGGCCGAGGCCG
AGGCCGGGGCGGGATCCAGAGCGGGAGCCGGCGCGGGATCTGGGACTCGGAGCGGGATCCGGAGCGGGACCCAGG
AGCCGGCGCGGGGGCC**ATGG**CGAGGCGCGGGCCAGGGTGGCGGCCGCTTCTGCTGCTCGTGCTGCTGGCGGGCGCG
GCGCAGGGCGGCCTCTACTTCCGCCGGGGACAGACCTGCTACCGGCCTCTGCGGGGGGACGGGCTGGCTCCGCTG
GGGCGCACGACATAACCCCGGCCTCATGAGTACCTGTCCCCAGCGGATCTGCCCAAGAGCTGGGACTGGCGCAAT
GTGGATGGTGTCAACTATGCCAGCATCACCCGGAACCAGCACATCCCCAATACTGCGGCTCCTGCTGGGCCAC
GCCAGCACCAGCGCTATGGCGGATCGGATCAACATCAAGAGGAAGGGAGCGTGGCCCTCCACCTCCTGTCCGTG
CAGAACGTCATCGACTGCGGTAACGCTGGCTCCTGTGAAGGGGGTAATGACCTGTCCGTGTGGGACTACGCCAC
CAGCACGGCATCCCTGACGAGACCTGCAACAACCTACCAGGCCAAGGACCAGGAGTGTGACAAGTTTAACCAATGT
GGGACATGCAATGAATTCAAAGAGTGCCACGCCATCCGGAACCTACACCTCTGGAGGGTGGGAGACTACGGCTCC
CTCTCTGGGAGGGAGAAGATGATGGCAGAAATCTACGCAAATGGTCCCATCAGCTGTGGAATAATGGCAACAGAA
AGACTGGCTAACTACACCGGAGGCATCTATGCCGAATACCAGGACACCACATATATAAACCATGTCGTTTCCGTG
GCTGGGTGGGGCATCAGTGATGGGACTGAGTACTGGATTGTCCGGAATTCATGGGGTGAACCATGGGGCGAGAGA
GGCTGGCTGAGGATCGTGACCAGCACCTATAAGGATGGGAAGGGCGCCAGATACAACCTTGCCATCGAGGAGCAC
TGTACATTTGGGGACCCCATCGTTT**TAA**GGCCATGTCACTAGAAAGCGCAGTTTAAGAAAAGGCATGGTGACCCATG
ACCAGAGGGGATCCTATGGTTATGTGTGCCAGGCTGGCTGGCAGGAACCTGGGGTGGCTATCAATATTGGATGGCG
AGGACAGCGTGGTACTGGCTGCGAGTGTTCTGAGAGTTGAAAGTGGGATGACTTATGACACTTGCACAGCATGC
TCTGCCTCACAATGATGCAGTCAGCCACCTGGTGAAGAAGTGACCTGCAACACAGGAAACGATGGGACCTCAGTC
TTCTTCAGCAGAGGACTTGATATTTTGTATTTGGCAACTGTGGGCAATAATATGGCATTTAAGAGGTGAAAGAGT
TCAGACTTATCACCATTCTTATGTCACTTTAGAATCAAGGG

1737/2825
FIGURE 1544

MARRGPGWRPLLLLVLLAGAAQGGLYFRRGQTCYRPLRGDGLAPLGRTTYPRPHEYLSPADLPKSWDWRNVDGVN
YASITRNQHIPPQYCGSCWAHASTSAMADRINIKRKGAWPSTLLSVQNVIDCGNAGSCEGGNDLSVWDYAHQHGP
DETCNNYQAKDQECDFNQCCTCNEFKECHAIRNYTLWRVGDYGSLSGREKMMAEIYANGPISCGIMATERLANY
TGGIYA EYQDTTYINHVVSVAGWGISDGTEYWIVRNSWGEPWGERGWLRIVTSTYKDGKGARYNLAIEEHCTFGD
PIV

1738/2825
FIGURE 1545

CGCCGAGATCGGGTGCCCGGG**ATG**AGCCTCATCCGGAAAAAGGGCTTCTACAAGCAGGACGTCAACAAGACCGCC
TGGGAGCTGCCCAAGACCTACGTGTCCCCGACGCACGTTCGGCAGCGGGGCCTATGGCTCCGTGTGCTCGGCCATC
GACAAGCGGTCAGGGGAGAAGGTGGCCATCAAGAAGCTGAGCCGACCCTTTCAGTCCGAGATCTTCGCCAAGCGC
GCCTACCGGGAGCTGCTGCTGCTGAAGCACATGCAGCATGAGAACGTCAATTGGGCTCCTGGATGTCTTCACCCCA
GCCTCCTCCCTGCGCAACTTCTATGACTTCTACCTGGTGATGCCCTTCATGCAGACGGATCTGCAGAAGATCATG
GGGATGGAGTTCAGTGAGGAGAAGATCCAGTACCTGGTGATCAGATGCTCAAAGGCCCTTAAGTACATCCACTCT
GCTGGGGTCGTGCACAGGGACCTGAAGCCAGGCAACCTGGCTGTGAATGAGGACTGTGAAGTGAAGATTCTGGAT
TTTGGGCTGGCGCGACATGCAGACGCCGAGATGACTGGCTACGTGGTGACCCGCTGGTACCGAGCCCCCGAGGTG
ATCCTCAGCTGGATGCACTACAACCAGACAGTGGATATCTGGTCTGTGGGCTGTATCATGGCAGAGATGCTGACA
GGGAAAACCTCTGTTTCAGGGGGAAAGATTACCTGGACCAGCTGACCCAGATCCTGAAAGTGACCGGGGTGCCTGGC
ACGGAGTTTGTGAGAAGCTGAACGACAAAGCGGCCAAATCCTACATCCAGTCCCTGCCACAGACCCCCAGGAAG
GATTTCACTCAGCTGTTCCACGGGCCAGCCCCAGGCTGCGGACCTGCTGGAGAAGATGCTGGAGCTAGACGTG
GACAAGCGCCTGACGGCCGCGCAGGCCCTCACCCATCCCTTCTTTGAACCCTTCCGGGACCCTGAGGAAGAGACG
GAGGCCCAGCAGCCGTTTGATGATTCTTAGAACACGAGAACTCACAGTGGATGAATGGAAGCAGCACATCTAC
AAGGAGATTGTGAACCTCAGCCCCATTGCCCCGAAGGACTCACGGCGCCGGAGTGGCATGAAGCTG**TAG**GGACTC
ATCTTGATGGCACCGCCGGCCAGACACTGCCCAAGGACCAGTATTTGTCACTACCAAACCTCAGCCCTTCTTGGA
ATACAGCCTTTCAAGCAGAGGACAGAAGGGTCCTTCTCCTTATGTGGGAAATGGGCCTAGTAGATGCAGAATTCA
AAGATGTCGGTTGGGAGAACTAGCTCTGATCCTAACAGGCCACGTTAAACTGCCATCTGGAGAATCGCCTGCA
GGTGGGGCCCTTTCCTTCCCGCCAGAGTGGGGCTGAGTGGGCGCTGAGCCAGGCCGGGGGCCTATGGCAGTGATG
CTGTGTTGGTTTCCTAGGGATGCTCTAACGAATTACCACAAACCTGGTGGATTGAAACAGCAGAACTTGATTCCC
TTACAGTTCTGGAGGCTGGAATCTGGGATGGAGGTGTTGGCAGGGCTGTGGTCCCTTTGAAGGCTCTGGGGAG
AATCCTTCCTTGGCTCTTTTTAGCTTGTGGCGGCAGTGGGCAGTCCGTGGCATTCCCCAGCTTATTGCTGCATCA
CTCCAGTCTCTGTCTCTTCTGTTCTCTCTCTTTTAAACAACAGTCATTGGATTTAGGGCCCACCCTAATCCTGTG
TGATCTTATCTTGATCCTTATTAATTAAACCTGCAAATACTCTAGTTCCAAATAAAAAAAAAAAAAAAAAA

1739/2825
FIGURE 1546

MSLIRKKGFYKQDVNKTAWELPKTYVSPTHVGSAYGSVCSAIDKRSGEKVAIKKLSRPFQSEIFAKRAYRELLL
LKHMQHENVIGLLDVFTPASSLRNFYDFYLVMPFMQTDLQKIMGMEFSEEKIQYLVYQMLKGLKYIHSAGVVHRD
LKPGNLAVNEDCELKILDFGLARHADAEMTGYVVTRWYRAPEVILSWMHYNQTVDIWSVGCIMAEMLTGKTLFRG
KDYLDQLTQILKVTGVPGETEFVQKLNDKAAKSYIQSLPQTPRKDFTQLFPRASQAADLLEKMLELDVDKRLTAA
QALTHPFFFEFFRDPEEETEAQQPFDDSL EHEKLTVD EWKQHIYKEIVNFSPIARKDSRRRSGMKL

1740/2825
FIGURE 1547

GGACACGAGGCTGGGACCGGAGTGGGGAGCGCGGCGTGAGAGTGCCACCCGGCGGGTGCGGGAGAGATCAGAAG
CCTCTTCCCCAAGCCGAGCCAACCTCAGCGGGGACCCGGGCTCAGGGACGCGGCGGCGGCGGCGGCGACTGCAGT
GGCTGGACGATGGCAGCGTCCGCCGGAGCCGGGGCGGTGATTGCAGCCCCAGACAGCCGGCGCTGGCTGTGGTGC
GTGCTGGCGGCGGCGCTTGGGCTCTTGACAGCTGGAGTATCAGCCTTGGAAGTATATACGCCAAAAGAAATCTTC
GTGGCAAATGGTACACAAGGGAAGCTGACCTGCAAGTTCAAGTCTACTAGTACGACTGGCGGGTTGACCTCAGTC
TCCTGGAGCTTCCAGCCAGAGGGGGCCGACACTACTGTGTCTGTTTTTCCACTACTCCCAAGGGCAAGTGTACCTT
GGGAATTATCCACCATTTAAAGACAGAATCAGCTGGGCTGGAGACCTTGACAAGAAAGATGCATCAATCAACATA
GAAATATGCAGTTTATACACAATGGCACCTATATCTGTGATGTCAAAAACCCCTCCTGACATCGTTGTCCAGCCT
GGACACATTAGGCTCTATGTCTGTAGAAAAAGAGAATTTGCCGTGTGTTTTCCAGTTTGGGTAGTGGTGGGCATAGTT
ACTGCTGTGGTCTTAGGTCTCACTCTGCTCATCAGCATGATTCTGGCTGTCTCTATAGAAGGAAAACTCTAA
CGGGATTACACTGGCTGCAGTACATCAGAGAGTTTGTCAACAGTTAAGCAGGCTCCTCGGAAGTCCCCCTCCGAC
ACTGAGGGTCTTGTAAGAGTCTGCCTTCTGGATCTCACCAGGGCCCAGTCATATATGCACAGTTAGACCACTCC
GGCGGACATCAGAGTGACAAGATTAACAAGTCAGAGTCTGTGGTGTATGCGGATATCCGAAAGAATTAAAGAGAAT
ACCTAGAACATATCCTCAGCAAGAAACAAAACCAAACCTGGACTCTCGTGCAGAAAATGTAGCCCATTACCACATT
TAGCCTTGGAGACCCAGGCAAGGACAAGTACACGTGTACTCACAGAGGGAGAGAAAGATGTGTACAAAGGATATG
TATAAATATTCTATTTAGTCATCCTGATATGAGGAGCCAGTGTTCATGATGAAAAGATGGTATGATTCTACATA
TGTACCCATTGTCTTGCTGTTTTTTGTACTTTCTTTTCAGGTCATTTACAATTGGGAGATTTAGAAAACATTTCCT
TCACCATCATTTAGAAATGGTTTTGCCTTAATGGAGACAATAGCAGATCCTGTAGTATTTCCAGTAGACATGGCCT
TTTAATCTAAGGGCTTAAGACTGATTAGTCTTAGCATTTACTGTAGTTGGAGGATGGAGATGCTATGATGGAAGC
ATACCCAGGGTGGCCTTTAGCACAGTATCAGTACCATTTATTTGTCTGCCGCTTTTAAAAAATACCCATTGGCTA
TGCCACTTGAAAACAATTTGAGAAGTTTTTTTTGAAGTTTTTCTCACTAAAATATGGGGCAATTGTTAGCCTTACA
TGTTGTGTAGACTTACTTTAAGTTTTGCACCTTGAAAATGTGTGCATATCAATTTCTGGATTCAATATAGCAAGATT
AGCAAAGGATAAATGCCGAAGGTCACCTTCATTCTGGACACAGTTGGATCAATACTGATTAAGTAGAAAATCCAAG
CTTGCTTGAGAACTTTTGTAACTGGAGAGTAAAAAGTATCGGTTTTTAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAA

1741/2825
FIGURE 1548

MAASAGAGAVIAAPDSRRWLWSVLAAALGLLTAGVSALEVYTPKEIFVANGTQGKLTCKFKSTSTTGGLTSVSWS
FQPEGADTTVSFFHYSQGQVYLGNYPPFKDRISWAGDLDDKKDASINNIENMQFIHNGTYICDVKNPPDIVVQPGHI
RLYVVEKENLPVFPVWVVGIVTAVVLGLTLLISMILAVLYRRKNSKRDTGCGSTSESLSPVKQAPRKSPSDTEG
LVKSLPSGSHQGPVIYAQLDHSGGHHSDKINKSESVVYADIRKN

1742/2825
FIGURE 1549

TGCAGCTGTTTTCACTCCGCTGTGACTCAGAGCGCTCCGGGCTGCAGGAGAGGAAGAAATCTTGCAATCACC**ATGG**
TGCACCTTCTGTGGCCTACTCACCCCTCCACCGGGAGCCAGTGCCGCTGAAGAGTATCTCTGTGAGCGTGAACATTT
ACGAGTTTGTGGCTGGTGTGTCTGCAACTTTGAACTACGAGAATGAGGAGAAAGTTCCCTTTGGAGGCCCTTCTTTG
TGTTCCCCATGGATGAAGACTCTGCTGTTTACAGCTTTGAGGCCCTTGGTGGATGGGAAGAAAATTTGTAGCAGAAT
TACAAGACAAGATGAAGGCCCGCACCAACTATGAGAAAGCCATCTCCCAGGGCCACCAGGCCCTTCTTATTGGAGG
GGGACAGCAGCTCCAGGGATGTCTTCTCTTGCAATGTGGGTAACTTCCAACCTGGGTGCAAGGCGGCAGTCACCC
TGAAGTATGTGCAGGAGCTGCCTCTGGAAGCAGATGGGGCTCTGCGCTTTGTGCTCCCAGCTGTCTGAATCCTA
GATACCAGTTCTCTGGGTCTGCTAAGGACAGTTGCCTTAATGTGAAGACTCCTATAGTCCCTGTGGAGGACCTGC
CCTACACACTCAGCATGGTTCGCCACCATAGATTCCCAGCATGGCATTGAGAAGGTCCAATCCAACCTGCCCCCTTGA
GTCCTACCGAGTACCTAGGAGAGGACAAGACTTCTGCTCAGGTTTCCCTGGCTGCTGGACACAAGTTTGATCGGG
ACGTGGAACCTCTGATTTACTACAATGAGGTGCATACCCCCAGCGTGGTTTTTGGAGATGGGGATGCCTAACATGA
AGCCAGGTCATTTGATGGGAGATCCATCTGCAATGGTGAGTTTCTATCCAAATATCCCAGAAGATCAACCATCAA
ATACCTGTGGAGAGTTTATCTTTCTCATGGACCGCTCGGGAAGTATGCAGAGCCCCATGAGTAGCCAGGATACAT
CTCAGCTGCGAATACAGGCAGCCAAGGAAACACTGATTTTGTCTGCTGAAGAGTTTACCTATAGGCTGTTATTTCA
ACATCTATGGATTTGGCTCTTCCCTATGAGGCATGCTTTCGGGAGAGTGTGAAGTACACTCAGCAAAACATGGAGG
AGGCTCTGGGGAGAGTGAAGCTTATGCAGGCCGACCTAGGGGGCACTGAAATCTTGGCACCACTCCAGAACATTT
ACAGGGGACCCCTCCATCCCAGGCCACCCCTACAGCTTTTTGTCTTTACAGATGGAGAAGTTACAGACACGTTTA
GTGTAATTAAAGAAGTTAGGATCAACAGACAGAAACACAG**GTAG**GAAGAAAATGTGATTTCCGGGTGATTGGTGC
TGAGTAGTGACACACAGACTCTAGTGCTACATGATGCCGGTGTGACCTTCCTTCAAGAGGACCAAAATGATTTCA
GAATTTAGTTTTAGCAGCTGAAAATTTATTTCTCCCTGTAAACGTTAAAAACAGTTTTTCCAAATAACATCAACAA
CACAGCAAAACCATTGTTTCTTATTCTTTCTAAACTACAACGAACACAAGAATTGAATAGTAAGATGTTAATTTT
TTTTACTATAAACATTTTTAGAGAAGTAAAAACATGCTGAAAACCTACACAAATTATAAGCATACAACCTGGACTCAT
TATCACAGTGAATGCACTGTGTGATCGCCACATAGGTAAAAACTGGAATGGTCGTAGGCCTCTCCATCTGTACCC
TTTTCCATCATGTCCTATTCCCTGTCACTACACACTAAAACTTTCCCTGACTTACAATACCATGGGTTATTTATGC
TTGTTTTTGAATGAAAATAAATAAGTTATACAGTAAAAAAAAAAAAAAAAAAAA

1743/2825
FIGURE 1550

MVHFCGLLTLLHREPVPLKSISVSVNIYEFVAGVSATLNYENEEKVPLEAFFVFPMDEDSAVYSFEALVDGKKIVA
ELQDKMKARTNYEKAI SQGHQAFLLEGDSSSRDVFSCNVGNLQPGSKAAVTLKYVQELPLEADGALRFVLPVNLN
PRYQFSGSSKDSCLNVKTPIVPVEDLPYTLSMVATIDSQHGIEKVQSNCP LSPTEYLGEDKTS AQVSLAAGHKFD
RDVELLIYYNEVHTPSVVLEMGMFNMKPGHLMGDPSAMVSFY PNIPEDQPSNTCGEFIFLMDRSGSMQSPMSSQD
TSQLRIQAAKETLILLLLKSLPIGCYFN IYGFSSYEACFPESVKYTQQTMEELGRVKLMQADLGGTEILAPLQN
IYRGPSIPGHPLQLFVFTDGEVTDTF SVIKEVRINRQKHR

1744/2825
FIGURE 1551A

ATGGCTGGCGGAGCCTGGGGCCGCTGGCCTGTTACTTGGAGTTCCTGAAGAAGGAGGAGCTGAAGGAGTTCCAG
CTTCTGCTCGCCAATAAAGCGCACTCCAGGAGCTCTTCGGGTGAGACACCCGCTCAGCCAGAGAAGACGAGTGGC
ATGGAGGTGGCCTCGTACCTGGTGGCTCAGTATGGGGAGCAGCGGGCCTGGGACCTAGCCCTCCATACCTGGGAG
CAGATGGGGCTGAGGTCACTGTGCGCCCAAGCCCAGGAAGGGGGCAGGCCACTCTCCCTCATTCCCTACAGCCCA
AGTGAACCCCCACCTGGGGTCTCCAGCCAACCCACCTCCACCGCAGTGCTAATGCCCTGGATCCATGAATTGCCG
GCGGGGTGCACCCAGGGCTCAGAGAGAAGGGTTTTGAGACAGCTGCCTGACACATCTGGACGCCGCTGGAGAGAA
ATCTCTGCCTCACTCCTCTACCAAGCTCTTCCAAGCTCCCCAGACCATGAGTCTCCAAGCCAGGAGTCACCCAAC
GCCCCACATCCACAGCAGTGCTGGGGAGCTGGGGATCCCCACCTCAGCCAGCCTAGCACCCAGAGAGCAGGAG
GCTCCTGGGACCCAATGGCCTCTGGATGAAACGTCAGGAATTTACTACACAGAAATCAGAGAAAGAGAGAGAGAG
AAATCAGAGAAAGGCAGGCCCCCATGGGCAGCGGTGGTAGGAACGCCCCCACAGGCGCACACCAGCCTACAGCCC
CACCACCACCATGGGAGCCTTCTGTGAGAGAGAGCCTCTGTTCCACATGGCCCTGGAAAAATGAGGATTTTAAAC
CAAAAATTCACACAGCTGCTACTTCTACAAAGACCTCACCACAGAAAGCCAAGATCCCTGGTCAAGAGAAGCTGG
CCTGATTATGTGGAGGAGAATCGAGGACATTTAATTGAGATCAGAGACTTATTTGGCCAGGCCTGGATACCCAA
GAACCTCGCATAGTCATACTGCAGGGGGCTGCTGGAATTGGGAAGTCAACACTGGCCAGGCAGGTGAAGGAAGCC
TGGGGGAGAGGCCAGCTGTATGGGGACCGCTTCCAGCATGTCTTCTACTTCAGCTGCAGAGAGCTGGCCCCAGTCC
AAGGTGGTGAGTCTCGCTGAGCTCATCGGAAAAGATGGGACAGCCACTCCGGCTCCATTAGACAGATCCTGTCT
AGGCCAGAGCGGCTGCTCTTCATCCTCGATGGTGTAGATGAGCCAGGATGGGTCTTGACAGGAGCCGAGTTCTGAG
CTCTGTCTGCACTGGAGCCAGCCACAGCCGGCGGATGCACTGCTGGGCAGTTTGCTGGGGAAAACTATACTTCCC
GAGGCATCCTTCTGATCACGGCTCGGACCACAGCTCTGCAGAACCTCATTCTTCTTTGGAGCAGGCACGTTGG
GTAGAGGTCTGGGGTTCTCTGAGTCCAGCAGGAAGGAATATTTCTACAGATATTTACAGATGAAAGGCAAGCA
ATTAGAGCCTTTAGGTTGGTCAAATCAAACAAAGAGCTCTGGGGCCTGTGTCTTGTGCCCTGGGTGTCTGGCTG
GCCTGCACTTGCCTGATGCAGCAGATGAAGCGGAAGGAAAAACTCACACTGACTTCCAAGACCACCACAACCTC
TGTCTACATTACCTTGCCAGGCTCTCCAAGCTCAGCCATTGGGACCCAGCTCAGAGACCTCTGCTCTCTGGCT
GCTGAGGGCATCTGGCAAAAAAAGACCTTTTTCAGTCCAGATGACCTCAGGAAGCATGGGTTAGATGGGGCCATC
ATCTCCACCTTCTTGAAGATGGGTATTCTTCAAGAGCACCCCATCCCTCTGAGCTACAGCTTCATTACCTCTGT
TTCCAAGAGTTCTTTGCAGCAATGTCTATGTCTTGGAGGATGAGAAGGGGAGAGGTAAACATTCTAATTGCATC
ATAGATTTGGAAGACGCTAGAAGCATATGGAATACATGGCCTGTTTGGGGCATCAACCACACGTTTCTATTG
GGCCTGTAAAGTGATGAGGGGGAGAGAGAGATGGAGAACATCTTTCACTGCCGGCTGTCTCAGGGGAGGAACCTG
ATGCAGTGGGTCCCGTCCCTGCAGCTGCTGCTGCAGCCACACTCTCTGGAGTCCCTCCACTGCTTGTACGAGACT
CGGAACAAAACGTTCCCTGACACAAGTGATGGCCCATTTGAAGAAATGGGCATGTGTGTAGAAACAGACATGGAG
CTCTTAGTGTGCACTTTCTGCATTAAATTCAGCCGCCACGTGAAGAAGCTTCAGCTGATTGAGGGCAGGCAGCAC
AGATCAACATGGAGCCCCACCATGGTAGTCTCTGTTAGGTGGGTCCCAGTCACAGATGCCTATTGGCAGATTCTC
TTCTCCGTCTCAAGGTCACCAGAAACCTGAAGGAGCTGGACCTAAGTGGAAGCTCGCTGAGCCACTCTGCAGTG
AAGAGTCTTTGTAAGACCCTGAGACGCCCTCGCTGCCTCCTGGAGACCCTGCGGTTGGCTGGCTGTGGCCTCACA
GCTGAGGACTGCAAGGACCTTGCCTTTGGGCTGAGAGCCAACCAGACCCTGACCGAGCTGGACCTGAGCTTCAAT
GTGCTCACGGATGCTGGAGCCAAACACCTTTGCCAGAGACTGAGACAGCCGAGCTGCAAGCTACAGCGACTGCAG
CTGGTCAGCTGTGGCCTCACGTCTGACTGCTGCCAGGACCTGGCCTCTGTGCTTAGTGCCAGCCCCAGCCTGAAG
GAGCTAGACCTGCAGCAGAACACCTGGATGACGTTGGCGTGCGACTGCTCTGTGAGGGGCTCAGGCATCCTGCC
TGCAAACTCATACGCCTGGGGCTGGACCAGACAACTCTGAGTGATGAGATGAGGCAGGAAGTGAAGGGCCCTGGAG
CAGGAGAAAACCTCAGCTGCTCATCTTACAGCAGACGGAAACCAAGTGTGATGACCCCTACTGAGGGCCTGGATACG
GGAGAGATGAGTAATAGCACATCCTCACTCAAGCGGCAGAGACTCGGATCAGAGAGGGCGGCTTCCCATGTTGCT
CAGGCTAATCTCAAACCTCTGGACGTGAGCAAGATCTTCCCAATTGCTGAGATTGCAGAGGAAAGCTCCCCAGAG
GTAGTACCGGTGGAACCTCTGTGCGTGCCTTCTCCTGCCTCTCAAGGGGACCTGCATACGAAGCCTTTGGGGACT
GACGATGACTTCTGGGGCCCCACGGGGCCTGTGGCTACTGAGGTAGTTGACAAAGAAAAGAACTTGTACCGAGTT
CACTTCCCTGTAGCTGGCTCCTACCGCTGGCCCAACACGGGTCTCTGCTTTGTGATGAGAGAAGCGGTGACCGTT
GAGATTGAATTCTGTGTGTGGGACCAGTTCTGGGTGAGATCAACCCACAGCACAGCTGGATGGTGGCAGGGCCT
CTGCTGGACATCAAGGCTGAGCCTGGAGCTGTGGAAGCTGTGCACCTCCCTCACTTTGTGGCTCTCCAAGGGGGC
CATGTGGACACATCCCTGTTCCAAATGGCCCACTTTAAAGAGGAGGGGATGCTCCTGGAGAAGCCAGCCAGGGTG

1745/2825
FIGURE 1551B

GAGCTGCATCACATAGTTCTGGAAAACCCAGCTTCTCCCCCTTGGGAGTCCTCCTGAAAATGATCCATAATGCC
CTGCGCTTCATTCCCGTCACCTCTGTGGTGTGCTTTACCACCGCGTCCATCCTGAGGAAGTCACCTTCCACCTC
TACCTGATCCCAAGTGACTGCTCCATTGCGAAGGCCATAGATGATCTAGAAATGAAATTCCAGTTTGTGCGAATC
CACAAGCCACCCCGCTGACCCCACTTTATATGGGCTGTCTGTTACACTGTGTCTGGGTCTGGTTCAGGGATGCTG
GAAATACTCCCAAGGAAGTGGAGCTCTGCTATCGAAGCCCTGGAGAAGACCAGCTGTTCTCGGAGTTCTACGTT
GGCCACTTGGGATCAGGGATCAGGCTGCAAGTGAAAGACAAGAAAGATGAGACTCTGGTGTGGGAGGCCTTGGTG
AAACCAGGAGATCTCATGCCTGCAACTACTCTGATCCCTCCAGCCCGCATAGCCGTACCTTCACCTCTGGATGCC
CCGCAGTTGCTGCACTTTGTGGACCAGTATCGAGAGCAGCTGATAGCCCGAGTGACATCGGTGGAGGTTGTCTTG
GACAAACTGCATGGACAGGTGCTGAGCCAGGAGCAGTACGAGAGGGTGCTGGCTGAGAACACGAGGCCCAGCCAG
ATGCGGAAGCTGTTTACGCTTGAGCCAGTCCTGGGACCGGAAGTGCAAAGATGGACTCTACCAAGCCCTGAAGGAG
ACCCATCCTCACCTCATTATGGAAGTCTGGGAGAAGGGCAGCAAAAAGGGACTCCTGCCACTCAGCAGCTGAAGT
ATCAACACCAGCCCTTGACCCTTGAGTCCTGGCTTTGGCTGACCCTTCTTTGGGTCTCAGTTTCTTTCTCTGCAA
ACAAGTTGCCATCTGGTTTGCCTTCCAGCACTAAAGTAATGGAAGTTTGATGATGCCTTTGCTGGGCATTATGTG
TCCATGCCAGGGATGCCACAGGGGGCCCCAGTCCAGGTGGCCTAACAGCATCTCAGGGAATGTCCATCTGGAGCT
GGCAAGACCCCTGCAGACCTCATAGAGCCTCATCTGGTGGCCACAGCAGCCAAGCCTAGAGCCCTCCGGATCCCA
TCCAGGCGCAAAGAGGAATAGGAGGGACATGGAACCATTTGCCTCTGGCTGTGTACAGGGTGAGCCCCAAAATT
GGGGTTCAGCGTGGGAGGCCACGTGGATTCTTGGCTTTGTACAGGAAGATCTACAAGAGCAAGCCAACAGAGTAA
AGTGGAAGGAAGTTTATTAGAAAATAAAGGAGTATCACAGCTCTTTTAGAATTTGTCTAGCAGGCTTTCCAGTT
TTTACCAGAAAACCCCTATAAATTAATAATTTTTTACTTAAATTTAAGAATTAATAATAATAACAAAAAGAAAAA
TGAAAAATAAAGGAATAAGAAGTTACCTACTCCAAAAAAAAAAAA

1746/2825
FIGURE 1552

MAGGAWGRLACYLEFLKKEELKEFQLLLLANKAHSRSSSGETPAQPEKTSGMEVASYLVAQYGEQRAWDLALHTWE
QMGLRSLCAQAQEGAGHSPSPFPYSPSEPHLGSPSQPTSTAVLMPWIHELPAAGCTQGSERRVLRQLPDTSGRRWRE
ISASLLYQALPSSPDHESPSQESPNAPTSTAVLGSWGSPPQP SLAPREQEAPGTQWPLDETSGIYYTEIRERERE
KSEKGRPPWAAVVGTPPQAHTSLQPHHPWEP SVRESLCSTWPKNEDFNQKFTQLLLLQRP HPRSQDPLVKRSW
PDYVEENRGHLIEIRD LFGPGLDTQEPRIVILQGAAGIGKSTLARQVKEAWGRGQLYGDRFQHVFYFSCRELAQS
KVVSLAELIGKDG TATPAPIRQILSRPERLLFILDGVDEPGWVLQEPSSSELCLHWSQPQPADALLGSLLGKTI LP
EASFLITARTTALQNLIPSLEQARWVEVLGFSESSRKEYFYRYFTDERQAIRAFRLVKS NKELWALCLVPWVSWL
ACTCLMQQMKRKEKLT LTSTTTTTLCLHYLAQALQAQPLGFPQLRDLCSLAAEGIWQKKT LFSRDDLRKHGLDGA I
ISTFLKMGILQEHP IPLSYSFHLCFQEFFAAMSYVLEDEKGRGKHSNCI IDLEKTLEAYGIHGLFGASTTRFL L
GLLSDEGEREMENIFHCRLSQGRNLMQWVPSLQLLLQPHSLESLSHCLYETR NKTFLTQVMAHFEEMGMCVETDME
LLVCTFCIKFSRHVKKLQLIEGRQHRSTWSPTMVVLF RWVPVTDAYWQILFSVLKVTRNLKELDLSGNSLSHSAV
KSLCKTLRRPRCLLET LRLAGCGLTAEDCKDLAFGLRANQTLTELDLSFNVLT DAGAKHLCQRLRQPSCKLQRLQ
LVSCGLTSDCCQDLASVLSASPSLKELDLQNNLDDVGVRLLCEGLRHPACKLIRLGLDQT TLSDEMRQELRALE
QEKPQLLIFSRRKPSVMTPT EGLDTGEMSNSTSSLKRQRLGSERAASHVAQANLKLLDVSKIFPIAEIAEESSPE
VVPVELLCVPSPASQGD LHTKPLGTDDDFWGPTGFPVATEVV DKEKNLYRVHFPVAGSYRWPNTGLCFVMREAVTV
EIEFCVWDQFLGEINPQH SWMVAGPLLDIKAEPGAVEAVHLPHFVALQGGHVDTS LFMMAHFKEEGMLLEKPARV
ELHHIVLENPSFSPLGVLLKMIHNALRFIPVTSVLLYHRVHP EEVTFHLYLIPSDCSIRKAID DLEMKFQFVRI
HKPPPLTPLYMGCRYTVSGSGSGMLEILPK ELELCYRSPGEDQLFSEFYVGH LGSGIRLQVKDKKDETLVWEALV
KPGDLMPATTLIPPARIAVPSPLDAPQLLHFVDQYREQLIARVTSVEVVLDK LHGQVLSQEYERVLAENTRPSQ
MRKLFSLSQSWDRKCKDGLYQALKETHPHLIMELWEKGSKKGLLPLSS

1747/2825
FIGURE 1553

CATTTTCATTGGCGTTTGTAGTCAGCAAAGAAGTCAAGATGGCCAAAGTTCCAGACATGTTTGAAGACCTGAAGAAC
TGTTACAGTGAAAATGAAGAAGACAGTTCCCTCCATTGATCATCTGTCTCTGAATCAGAAATCCTTCTATCATGTA
AGCTATGGCCCACTCCATGAAGGCTGCATGGATCAATCTGTGTCTCTGAGTATCTCTGAAACCTCTAAAACATCC
AAGCTTACCTTCAAGGAGAGCATGGTGGTAGTAGCAACCAACGGGAAGGTTCTGAAGAAGAGACGGTTGAGTTTA
AGCCAATCCATCACTGATGATGACCTGGAGGCCATCGCCAATGACTCAGAGGAAGAAATCATCAAGCCTAGGTCA
GCACCTTTTAGCTTCCCTGAGCAATGTGAAATACAACCTTTATGAGGATCATCAAATACGAATTCATCCTGAATGAC
GCCCTCAATCAAAGTATAATTGAGCCAATGATCAGTACCTCACGGCTGCTGCATTACATAATCTGGATGAAGCA
GTGAAATTTGACATGGGTGCTTATAAGTCATCAAAGGATGATGCTAAAATTACCGTGATTCTAAGAATCTCAAAA
ACTCAATTGTATGTGACTGCCCAAGATGAAGACCAACCAAGTGCTGCTGAAGGAGATGCCTGAGATACCCAAAACC
ATCACAGGTAGTGAGACCAACCTCCTCTTCTCTGGGAAACTCACGGCACTAAGAACTATTTACATCAGTTGCC
CATCCAAACTTGTTTTATTGCCACAAAGCAAGACTACTGGGTGTGCTTGGCAGGGGGGCCACCTCTATCACTGAC
TTTCAGATACTGGAAAACCAGGCGTAGGTCTGGAGTCTCACTTGTCTCACTTGTGCAGTGTTGACAGTTTCATATG
TACCATGTACATGAAGAAGCTAAATCCTTTACTGTTAGTCATTTGCTGAGCATGTACTGACCCTTGTAATTTCTAA
ATGAATGTTTACACTCTTTGTAAGAGTGGAACCAACACTAACATATAATGTTGTTATTTAAAGAACACCCCTATAT
TTTGCATAGTACCAATCATTTTTAATTATTATTCTTCATAACAATTTTAGGAGGACCAGAGCTACTGACTATGGCT
ACCAAAAAGACTCTACCCATATTACAGATGGGCAAATTAAGGCATAAGAAAATAAGAAATATGCACAATAGCAG
TTGAAACAAGAAGCCACAGACCTAGGATTTTCATGATTTTCATTTCACTGTTTGCCTTCTACTTTTAAAGTTGCTGA
TGAACTCTTAATCAAATAGCATAAGTTTCTGGGACCTCAGTTTTATCATTTTCAAATGGAGGGAATAATACCTA
AGCCTTCCTGCCGCAACAGTTTTTTATGCTAATCAGGGAGGTCATTTTGGTAAAATACTTCTTGAAGCCGAGCCT
CAAGATGAAGGCAAAGCACGAAATGTTATTTTTTAATTATTATTTATATATGTATTTATAAATATATTTAAGATA
ATTATAATATACTATATTTATGGGAACCCCTTCATCCTCTGAGTGTGACCAGGCATCCTCCACAATAGCAGACAG
TGTTTTCTGGGATAAGTAAGTTTGATTTTCATTAATACAGGGCATTTTGGTCCAAGTTGTGCTTATCCCATAGCCA
GGAAACTCTGCATTCTAGTACTTGGGAGACCTGTAATCATATAATAAATGTACATTAATTACCTTGAGCCAGTAA
TTGGTCCGATCTTTGACTCTTTTGCCATTAACTTACCTGGGCATTCTTGTTTCATTCAATTCCACCTGCAATCA
AGTCCTACAAGCTAAAATTAGATGAACTCAACTTTGACAACCATGAGACCACTGTTATCAAAGTTGAGTTCATCT
AATTTTAGCTTGTAGAGACGGGATTTACCATCTTGCCGTGCTGGTCTCGAACTTCTGACCTCGTGATCCACCC
GCCTCGGCCCTCCCAAAGTGCTGGGATTACAGGCGTGAGCCATCGCGCCCGGCCTGGAGTTTCTACTGTGCACCAG
GCACTACCTTTACATGTATTGTTTTATTTAATCCTCAGTCAGCCGTGTTTGGTAGGTGCAGTTAGTATATTTCCA
TTTTCATCTGCGCAAACAGATTACAGGAACCTTTGTAATTTACATAAGGTCACATTCATCCTAATTCACAAAATCAA
GATTTACACCTATTCTTTTTCTTTCCAGTGCCTGTGCTTTTTCTCTCATACCAAGGAGAAGTAATAAGCCTAA
CGTTTTAAACCTCACAAAAGTACATACAGAAAAGTAAATAGCCTAATTTTGCAACTAATACAAATGGCGCTGTAC
TTCTTTGGTGATGGTAGATTTATAATTTTTGAAGTATGGTAGATTCAAATGAACCACTGAAAAGGCATTTAGTTT
CTTGTCCCAAATAAAAAAAAAAAAAAAAAAAAAA

1748/2825
FIGURE 1554

MAKVPDMFEDLKNCYSENEEDSSSIDHLSLNQKSFYHVSYGPLHEGCMQSVSLSISETSKTSKLTFKESMVVVA
TNGKVLKKRRRLSLSQSITDDDLEAIANDSEEEI IKPRSAPFSFLSNVKYNFMRIIKYEFILNDALNQSIIRANDQ
YLTAAALHNLDEAVKFDMGAYKSSKDDAKITVILRISK TQLYVTAQDEDQPVLLKEMPEIPKTITGSETNLLFFW
ETHGTKNYFTSVAHPNLF IATKQDYWVCLAGGPPSITDFQILENQA

1749/2825
FIGURE 1555

GCCATTCTCTCACATCCCGTGCGGTCAGGAAGCCCTTCCTGAACTCTGACTTCAGTTCTTGCTGCGGTTTCTGCC
CATTTTTTTCATATCCTCTGACAGCTGCGAGGTCATCTCTGCTCTGGCTTTTCTCCAAGCAGAACAAGTGGGGGC
TCTGGAAGGTTAAGGGACCTCAGTGGCCACCATTATACTTTGCATCTTTCCTGAGAAGTGAGAGTTGAAAGGA
AGCAGGAAGGCCCATGGTCAGATTGAAGGAAGGACTTTTTAGTTTCTTTTTTTTTTTTTTGAATGGAGTCTCGC
TCTGTCAATTCAGGCTGGAGTGCAGTGGTGCATCTCAGCTCACTGCAGCCTCCACTTCCTGGGTTTCACATGATTC
TCCTGCCTCAGCCTCCCAAGTAGCTGAGACTACAGGCACATGCCACTACACCCAGCTAACTTTTGTATTTTAGT
AGAGACGGGGTTTACCATTGTTGGCCAGGCTGGTCTCAAAGTCTAACATCAAGTGATCTGCTCCCTCAGCCTC
CCAAAGTGCTGGGATTACCGGTATGAACCACCACAACCTGCCAGGAATTTTGTATTTTAGCTTTTGCAGGAGAC
TTCAAGGAAAGGAGACATTCTCTGTCCAGGAAACGGGTAAGGGGACCATTCTGCATTGCTGGTTTCCCTCTT
GGCAGGGTGGGCATGAGGCATCACTGTTCTCTGCTCCCTCACTCCTGCTCCTCATGCTCAGCCTGCCAGCTCGGCC
TCAACTTTGTGTGTCTAAAGTGGAACTGAATAGTAGCTGTGAGAAGATAGGAAAGAGGTAGTGCCAATCTCCTTG
CCCAGATCATAAATCCAGACTCAGCAGGGTAACCACATGGGCAAGCACAAAGGTAGGTGCTTGGGGAAAGGGGAAG
TAATTGGCATTCTGTGTGATACCAAGGAGACCATTGGATTTTGGCTTCTACCAAAGAGAATGGAGAATTGGTTG
ACCTAAATGGAACCAGTCCCTTTAAGTAAGGGGAGGAAAGGGGGTGCTGGAAGATGGCCCTCTTCCACCACCTA
GATCATAGCTTGAAGTGAAGCCAAGGACAGAGTGCTGCCCTTCGGCATTTACTGATGTGCCCTCTTTAAATCA
TGATGTTATCTAACCCAAACCCAGACCCAGGACCTAGTCACAGCTCCAACCTACACTTCCTATTAATCTTAAAC
AAAGCGAAACAAACACAAAAGATATCAGCATTGTAGCCTCCAATCTGAGCCATTTCCTTCTCTGGCTACCAT
ACCTCCTTCTCCTATATGATACCATTCACTACTTTGTTCAATTATCCAGTCTAGACCTGCATCTTGAGGCCACAC
CCAGCCTTCTCACTCCCCACACCCCTCTTTCCTCTCTCACTGCTCCTTCCTGGTCTCTTCTCATCTGGCCCCACC
TCTAAGGAGTCTCCTGCTTCTGGGTTGCCCTGGAAAACAGACTATCCCCCTCCTAGTGAAGGGAGTGGGTAG
GGGTTTTCAGCCCCACCCTCAGGAAGATGCGTCTTCCCTGTCTCTGCTCTGTGGTACTTCTCTCTGGCTGATT
AGCAAAACAGCACCTAGACCTGGGGCCAGGCCTTTGGCAGTGGGACAGATCCAGGGATAGGCTACACCACCCTGCC
CTGACCCTGGGATTGGCATCAGCTTCCAACCAGTTCTTGCCAAAGCTTGTAAGTCTCCCGACGGCCATGAACAC
TACATCTTCTGCAGCACCCCCCTCACTAGGTGTAGAGTTCACTCTCTCTGCTGGCTATCATCTGCTGCTAGTGGC
GCTGGCTGTGGGGCTTCCCGGCAACAGCTTTGTGGTGTGGAGTATCCTGAAAAGGATGCAGAAGCGCTCTGTCAC
TGCCCTGATGGTGTCTGAACCTGGCCCTGGCCGACCTGGCCGTATTGCTCACTGCTCCCTTTTCTCTCACTTCCT
GGCCCAAGGCACCTGGAGTTTGGACTGGCTGTTGCGCCTGTGTCACTATGTCTGCGGAGTCAGCATGTACGC
CAGCGTCTGCTTATCACGGCCATGAGTCTAGACCGCTCACTGGCGGTGGCCCGCCCTTTGTGTCCCAGAAGCT
ACGCACCAAGGCGATGGCCCGGCGGGTGTGGCAGGCATCTGGGTGTTGTCTTTCTGCTGGCCACACCCGTCT
CGCGTACCGCACAGTAGTGGCTTGGAAAACGAACATGAGCCTGTGCTTCCCGCGGTACCCAGCGAAGGGCACCG
GGCCTTCCATCTAATCTTCGAGGCTGTACGGGCTTCTGCTGCCCTTCTGGCTGTGGTGGCCAGCTACTCGGA
CATAGGGCGTCTGGCTACAGGCCGGCGCTTCCGCCGACGCCGCGCACCGGCCGCTGGTGGTGTCTCATCTCT
GACCTTCGCCGCTTCTGGCTGCCCTACCACGTGGTGAACCTGGCTGAGGCGGGCGCGCGCTGGCCGGCCAGGC
CGCCGGGTTAGGGCTCGTGGGGAAGCGGCTGAGCCTGGCCCGCAACGTGCTCATCGCACTCGCCTTCTGAGCAG
CAGCGTGAACCCGTGCTGTACGCGTGCGCCGGCGGGCGGCTGCTGCGCTCGGCGGGCGTGGGCTTCGTGCCAA
GCTGCTGGAGGGCACGGGTTCCGAGGCGTCCAGCACGCGCCGCGGGGCGAGCCTGGGCCAGACCGCTAGGAGCGG
CCCCGCCGCTCTGGAGCCCGGCCCTTCCGAGAGCCTCACTGCCTCCAGCCCTCTCAAGTTAAACGAACTGAACTA
GGCCTGGTGGAAAGGAGGCGCACTTTCCTCCTGGCAGAATGCTAGCTCTGAGCCAGTTCACTACCTGGAGGAGGAG
CAGGGGCGTGGAGGGCGTGGAGGGCGTGGGAGCGTGGGAGGCGGGAGTGGAGTGGAGAAGAGGGAGAGATGGAG
CAAAGTGAGGGCCGAGTGAGAGCGTGCTCCAGCCTGGCTCCACAGGCAGCTTTAACCATTAACCTGAAGTCTG
AA

1750/2825
FIGURE 1556

MNTTSSAAPP^{SL}GVEFISLLAIILL^SVALAVGLPGNSFV^{WS}SILKRMQKRSVTALMVLN^LALADLAVLLTAPFFL
HFLAQGTWSFGLAGCRLCHYVCGVSMYASVLLITAMSLDRSLAVARPFVSQKLRTKAMARRVL^{AGI}WVLSFLLAT
PVLAYRTVVPWKTNMSLCFPRYPSEGHRAFH^LIFEAVTGFLLPFLAVVASYS^DIGRR^LQARRFRRSRRTGRLVVL
IILTFAAFWLPYHVVN^LAEAGRALAGQAAGLGLVGKRLSLARNVLI^AFLSSSVNPVLYACAGGGLLRSAGVGF
VAKLLEGTGSEASSTRRGSLGQTARSGPAALEPGPSESLTASSPLKLNELN

1751/2825
FIGURE 1557

AGGGAACATCTCGGGGAGCCTGGTTGGAAGCTGCAGGCTTAGTCTGTCTGGCTGCGGGTCTCTGACTGCCCTGTGG
GGAGGGTCTTGCCTTAACATCCCTTGCAATTTGGCTGCAAAGAAATCTGCTTGGAAGAAGGGGTTACGCTGTTTGG
CCGGGCAGAAACTCCGCTGAGCAGAACTTGCCGCCAGAAATGCTCCTCCTGTTGCTGAGTATCATCGTCCCTCCACG
TCGCGGTGCTGGTGTCTGCTGTTTCGTCTCCACGATCGTCAGCCAATGGATCGTGGGCAATGGACACGCAACTGATC
TCTGGCAGAACTGTAGCACCTCTTCCTCAGGAAATGTCCACCACTGTTTCTCATCATCACCAAACGAATGGCTGC
AGTCTGTCCAGGCCACCATGATCCTGTCTGATCATCTTCAGCATTCTGTCTCTGTTTCTGTTCTTCTGCCAACTCT
TCACCCTCACCAAGGGGGGCGAGGTTTTACATCACTGGAATCTTCAAATTCTTGCTGGTCTGTGCGTGATGAGTG
CTGCGGCCATCTACACGGTGAGGCACCCGGAGTGGCATCTCAACTCGGATTACTCCTACGGTTTTCGCCTACATCC
TGGCCTGGGTGGCCTTCCCCCTGGCCCTTCTCAGCGGTGTCTATGTGATCTTGCGGAAACGCGAAATGAGGGCG
CCCAGACGGTCTGTCTGAGGCTCTGAGCGTACATAGGGAAGGGAGGAAGGGAAACCAGAAAGCAGACAAAAGAAAA
AAGAGCTAGCCCAAATCCCAAACCTCAAACCAAACCAAACAGAAAGCAGTGGAGGTGGGGGTTGCTGTTGATTGA
AGATGTATATAATATCTCCGGTTTATAAAACCTATTTATAACACTTTTTACATATATGTACATAGTATTGTTTGC
TTTTTATGTTGACCATCAGCCTCGTGTGAGCCTTAAAGAAGTAGCTAAGGAACTTTACATGGTAACAGTATAAT
CCAGCTCAGTATTTTTGTTTTGTTTTTGTGTTGTTTGTGTTTTGTTTTTACCCAGAAATAAGATAACTCCATGTCGCC
CCTTCCCTTTTCATCTGAAAGAAGATACCTCCCTCCAGTCCACCTCATTTAGAAAACCAAAGTGTGGGTAGAAAC
CCCAAATGTCCAAAAGCCCTTTTCTGGTGGGTGACCCAGTGCATCCAACAGAAACAGCCGCTGCCCCGAACCTGTG
TGAAGCTTTACGCGCACACGGACAAAATGCCCAAACCTGGAGCCCTTGCAAAAACACGGCTTGTTGGCATTGGCATA
CTTGCCCTTACAGGTGGAGTATCTTCGTACACATCTAAATGAGAAATCAGTGACAACAAGTCTTTGAAATGGTG
CTATGGATTTACCAATTCCTTATTATCACTAATCATCTAAACAACCTCACTGGAAATCCAATTAACAATTTTACAAC
ATAAGATAGAATGGAGACCTGAATAATTCTGTGTAATATAAATGGTTTATAACTGCTTTTGTACCTAGCTAGGCT
GCTATTATTACTATAATGAGTAAATCATAAAGCCTTCATCACTCCCACATTTTCTTACGGTTCGGAGCATCAGAA
CAAGCGTCTAGACTCCTTGGGACCGTGAGTTCCTAGAGCTTGGCTGGGTCTAGGCTGTTCTGTGCCTCCAAGGAC
TGTCTGGCAATGACTTGTATTGGCCACCAACTGTAGATGTATATATGGTGCCCTTCTGATGCTAAGACTCCAGAC
CTTTTGTGTTTTGCTTTGCATTTTCTGATTTTATACCAACTGTGTGGACTAAGATGCATTAAAATAAACATCAGAG
TAACTC

1752/2825
FIGURE 1558

MLLLLLSIIVLHVAVLVLLFVSTIVSQWIVGNHATDLWQNCSTSSSGNVHHCFS SSPNEWLQSVQATMILSIIF
SILSLFLFFCQLFTLTKGGRFYITGIFQILAGLCVMSAAAIYTVRHPEWHLNSDYSYGFAYILAWVAFPLALLSG
VIYVILRKRE

[illegible]

1754/2825
FIGURE 1560

MTPIVTVLICLGLSLGPRTRVQTGTIPKPTLWAEPSVITQGSPVTLSCQGSLEAQEYRLYREKKSASWITRIRP
ELVKNGQFHIPSITWEHTGRYGCQYYSRARWSELSDPLVLVMTGAYPKPTLSAQSPVVTSGGRVTLQCESQVAF
GGFILCKEGEDEHPQCLNSQPHARGSSRAIFSVGPVSPNRRWSHRCYGYDLNSPYVWSSPSDLLELLVPGVSKKP
SLSVQPGPVMAPGESLTLQCVSDVGYDRFVLYKEGERDLRQLPGRQPQAGLSQANFTLGPVSRSYGGQYRCYGAH
NLSSECSAPSDPLDILITGQIRGTPFISVQPGPTVASGENVTLLCQSWRQFHTFLLTKAGAADAFLRLRSIHEYF
KYQAEFFMSPVTSAHAGTYRCYGSLSNDPYLLSHPSLELVVSGPSMGSSPPPTGPISTPGPEDQPLTPTGSDP
QSGLGRHLGVVIGILVAVVLLLLLLLLLFLILRHRRQGKHWTSTQRKADFQHPAGAVGPEPTDRGLQWRSSPAAD
AQEENLYAAVKDTQPEDGVEMDTRAAASEAPQDVTYAQLHSLTLRRKATEPPPSQEREPPAEPSIYATLAIH

1755/2825
FIGURE 1561A

ATCTGCACAGCTGGGGCCCCTGGGAGGAGACGCC**ATG**ATCCCCACCTTCACGGCTCTGCTCTGCCTCGGGCTGAG
TCTGGGCCCCAGGACCGACATGCAGGCAGGGCCCCCTCCCCAAACCCACCCTCTGGGCTGAGCCAGGCTCTGTGAT
CAGCTGGGGGAACCTCTGTGACCATCTGGTGTGAGGGGACCCTGGAGGCTCGGGAGTACCGTCTGGATAAAGAGGA
AAGCCCAGCACCCCTGGGACAGACAGAACCCACTGGAGCCCCAAGAACAAGGCCAGATTCTCCATCCCATCCATGAC
AGAGGACTATGCAGGGAGATAACCGCTGTTACTATCGCAGCCCTGTAGGCTGGTCACAGCCCAGTGACCCCCCTGGA
GCTGGTGTATGACAGGAGCCTACAGTAAACCCACCCCTTCAGCCCTGCCGAGTCTCTTGTGACCTCAGGAAAGAG
CGTGACCCTGCTGTGTGTCAGTCACGGAGCCCAATGGACACTTTCTCTTCTGATCAAGGAGCGGGCAGCCCATCCCCCT
ACTGCATCTGAGATCAGAGCACGGAGCTCAGCAGCACCAGGCTGAATTCCCCATGAGTCTGTGACCTCAGTGCA
CGGGGGGACCTACAGGTGCTTCAGCTCACACGGCTTCTCCCACTACCTGCTGTGACACCCCAAGTGCAGGCCCTGA
GCTCATAGTCTCAGGATCCTTGGAGGGTCCCAGGCCCTCACCCACAAGGTCCGTCTCAACAGCTGCAGGCCCTGA
GGACCAGCCCCTCATGCCTACAGGGTCAGTCCCCCACAGTGGTCTGAGAAGGCACTGGGAGGTACTGATCGGGGT
CTTGGTGGTCTCCATCCTGCTTCTCTCCCTCCTCCTCTTCTCCTCCTCCAACACTGGCGTCAGGGAAAACACAG
GACATTGGCCCAGAGACAGGCTGATTTCACACGTCCTCCAGGGGCTGCCGAGCCAGAGCCCAAGGACGGGGGCCT
ACAGAGGAGGTCCAGCCCAGCTGCTGACGTCCAGGGGAGAAAACCTTCTGTGCTGCCGTGAAGAACACACAGCCTGA
GGACGGGGTGGAATGGACACTCGGCAGAGCCACACGATGAAGACCCCAAGGCAGTGACGTATGCCAAGGTGAA
ACACTCCAGACCTAGGAGAGAAATGGCCTCTCCTCCCTCCCCACTGTCTGGGGAATTCTGGACACAAAGGACAG
ACAGGCAGAAGAGGACAGACAGATGGACACTGAGGCTGCTGCATCTGAAGCCCCCAGGATGTGACCTACGCCCG
GCTGCACAGCTTTACCCTCAGACAGAAGGCAACTGAGCCTCCTCCATCCCAGGAAGGGGCCTCTCCAGCTGAGCC
CAGTGTCTATGCCACTCTGGCCATCCAC**TAAT**TCAGGGGGGAGCCAGACCCCAAGCCATGGAGACTCAGGACC
CCAGAAGGCATGGAAGCTGCCTCCAGTAGACATCACTGAACCCCAAGCCAGCCAGCCAGACCCCTGACACAGACCACTA
GAAGATTCCGGGAACGTTGGGAGTCACCTGATTCTGCAAAGATAAATAATATCCCTGCATTATCAAAAAATAAGTA
GCAGACCTCTCAATTCACAATGAGTTAACTGATAAAAAACAAACAGAAGTCAGACAATGTTTTAAATTGAATGATC
ATGTAAATATTACACATCAAAACCAATGACATGGGAAAAATGGGAGCTTCTAATGAGGACAAAACAAAAAATAGAGAA
AAATTAATAAAGTCAAAATGTTTTATTCTTGAAAAACATTAATGATACATGAATCTTGGCCACAATGAGAAAAATAA
AAATGAAAAAAGAGCAGGCATCCATTTCCATACAGGAACAAAATAGGAGGCAGCACTACAGACCCCTACACACAGC
TTTACAGAGGTGAAAGAAAACCTGTCAGCAATTCTATGCTGACATAACAGAAAATGTAGATGAGATAGATGAAATA
CGAAAAATTACAGTTTACTTAATGAACATAAGGATAAATAGAAAACTGAATCATCATACATAAACATATATAAA
ATGCATTGATCCTGTAATCAAAAATGTTCCCAACAAAGTAAATGCCACTTCAGCAAGGTTTGTGGTGGTTTTTTC
AACTCTTATGCACTCATGAAACACACAGACACACACACACAACTTGATAAAATTTCCCTGAGAATATTTT
GTATATATTTACACAAATACATTTGATCAGACTAGGAACAAGTTGATACCAAAACCTGAAAAGGAACTACAGAA
TGGGAAAGTCATAGAAGATCTCTCACAGAAATATAAATCCCTTAACAAATATTAACAAGTAAGATTCTATGTCTCT
ATAAAATAGACAGTATATCATGACCACACTGGTTTTTTGTTATCCTTTGATTTTGTATGAAAAGCAAGGATAG
CTTAATTTTCAAAAACCTCAATCAATGTAATTCAGTATTTTAACAAAAGGAATGAAAAATTATCATCTCAATAGAC
AAAGCTTTTGTCTGAGCACCTTTTCATATAGCTGCTGACCATTGTATGTCTTCTTTTGAGAAATGCCTGTTTCAG
CTACTTTGCCCATGTTTCAAGTAGTTTTTGGTTTCTTGCTGTTGCTTTGTTTTAGTTCCTTACATATTTTTGCAT
ATTAACCCTTTATCAGGTATACAGCTTGCAACTATTTTCTCCCATTTCTGAGTTGTCTCTTCATTCTGTTTGCAG
AAGCTGTTTAGAAGCCACACCTTTTGTCTATTTTGTCTTTTGTGCTTGTGTTTTCAGGGCCATATCCAAAAAAA
CCTTGCCCGGACCAACGTCTTGAAGCTTTTCTCACACCCATTTTTGTATATGGGATAAGGGTTCAATTTTCAATCT
TCTTCATATGAATATCCCCAGGATGTGTATATGCCCAGCTGCACAGCTTACCCTCAAACAGAAAAATAATGAAGC
CTTCTTCTCCCAAGGAAAGGGGACGTTTCAGCTGAGCCGAGTGTGTATACTGCTCTGGCCATCCACTAGCCCAGGG
AGGACCCAGACCTCCACACTCCATGGAGACTCAGTTCTCCTAGGACCATTTATTCAAAGGACTGCCCTCTCTTG
TTCTTGAAACTTTGTTGAGGATCAATTCACCATAAATAATGTGTGTTTCTTCTTTGCTTTTCATCCCTGTTGCAC
TGATCACTATACCTGTTTCTATTCCAGTTCCATGATGTCTTCTGGCTGTAGCTTTGTAGGATATTTGGGGATT
CATAGTGTGATATCCCCTTCTTCCCTTTGCTCAAGATTGTTTTGGCTATTTGGGGTCCCTTTTGTAGTCCCATTCA
AATTTTAGGATTGTTTTTCTATTTCTGTGGAAAACGACCTTGGAATTTTGTAGGAATTGCATTGAGTCTGCAGG
TATGAACCTTTTTTTTAAAGTTCCAGGGCACATGTACAGGACCTGCAGCTTTGTTACATAGGTAGGCTTGTGCCAT
GGTGGTTTGTCTGCACCTATCAACCCATTACCTAGTTATTAAGCCAGCATGCATTAGCTCTTTTTCTGATGCTC
TCCCTCCCTTCATCATCCGCCCTCCCACTACAAGCCCCAGTGTGTGTTGTTCCCTCCCTGTGTCCATGTGTCT

1756/2825
FIGURE 1561B

CATTGTTATACGAACATTTTAACAATGTTAATTCTTGCAGACCATGAACATAAGCTACCTTCCCATTATATGCG
TCTTGTTCAATTCATTCATCAATGTTATAAAGATTTTAGTGCAGAAAAAAAAAAAAAAAAA

1757/2825

FIGURE 1562

MIPTFTALLCLGLSLGPRTDMQAGPLPKPTLWAEFGSVISWGNSVTIWCQGTLEAREYRLDKEESPAPWDRQNPL
EPKNKARFSIPSMTEDYAGRYRCYYRSPVGWSQPSDPLELVMTGAYSKPTLSALPSPLVTS GKSVTLLCQSRSPM
DTFLLIKERAAHPLLHLRSEHGAQQHQAEFPMSPVTSVHGGTYRCFSSHGF SHYLLSHPSDPLELIVSGSLEGPR
PSPTRSVSTAAGPEDQPLMPTGSPVPHSGLRRHWEVLIGVLVVSILLLSLLL FLLLQHWRQGKHRTLAQRQADFQR
PPGAAEPEPKDGGLQRRSSPAADVQGENFCAAVKNTQPEDGVEMDTRQSPHDEDPQAVTYAKVKHSRPREMASP
PSPLSGEFLDTKDRQAEEDRQMDTEAAASEAPQDVTYARLHSFTLRQKATEPPPSQEGASPAEPSVYATLAIH

1758/2825
FIGURE 1563

GGTTTTTCAGGAGCCCCGAGCGAGGGCGCCGCTTTTTGCGTCCGGGAGGAGCCAACCGTGGCGCAGGCGGCGCGGGGA
GGCGTCCCAGAGTCTCACTCTGCCGCCCAGGCTGGACTGCAGTGACACAATCTCGGCTGACTGCAACCACTGCCT
CCAGGGTTCAAGCGATTCTCTTGCCCTCAGCCTCCCAAGTAGCTGGGATTACAGATTGATGTTTCATGTTCTTGCCA
CTACTACAAGATTCTACTCTCTGATGCTACTGACAACGTGGCTTCTCCACAGTCACCAAACAGGGATGCTATAC
TGGACTTCCCTACTCTCATCTGCTCCAGCCCCCTGACCTTATAGTTGCCAGCTTTCTTGCCAATTGACTTTGCC
CATCAATACACAGGATTTAGCATCCAGGGAAGATGTCGGAGCCTCAGATGTTAATTTTCTAATTGAGAATGTTGG
CGCTGTCCGAACCTGGAGACAGGAAAACAAAAAGTCTTTCTCCTGATTACCAAAAAATAAAATACTGACTACC
ATCACTGTGATGAGATTCTTATAGTCTCAGGAACCTGAAGTCTTTAAACAACAGGGACCCTCTGCCCTAGAATA
AGAACATACTAGAAGTCCCTTCTGCTAGGACAACGAGGATCATGGGAGACCACCTGGACCTTCTCCTAGGAGTGG
TGCTCATGGCCGGTCTGTGTTTGGAAATTCCTTCTGCTCCTTTGATGGCCGAATAGCCTTTTATCGTTTCTGCA
ACCTCACCCAGGTCCCCCAGGTCTCAACACCACTGAGAGGCTCCTGCTGAGCTTCAACTATATCAGGACAGTCA
CTGCTTCATCCTTCCCTTTTCTGGAACAGCTGCAGCTGCTGGAGCTCGGGAGCCAGTATACCCCTTGACTATTG
ACAAGGAGGCCCTTCAGAAACCTGCCCAACCTTAGAATCTTGGACCTGGGAAGTAGTAAGATATACTTCTTGCATC
CAGATGCTTTTTCAGGGACTGTTCCATCTGTTTGAACCTTAGACTGTATTTCTGTGGTCTCTCTGATGCTGTATTGA
AAGATGGTTATTTTCAGAAATTTAAAGGCTTTAACTCGCTTGGATCTATCCAAAAATCAGATTCTGTAGCCTTTACC
TTCATCCTTCATTTGGGAAGTTGAATTCCTTAAAGTCCATAGATTTTTCTCCAACCAAATATTCCTTGTATGTG
AACATGAGCTCGAGCCCCTACAAGGGAAAACGCTCTCCTTTTTTAGCCTCGCAGCTAATAGCTTGTATAGCAGAG
TCTCAGTGGACTGGGGAAAATGTATGAACCCATTTCAGAAACATGGTGTGGAGATACTAGATGTTTCTGGAAATG
GCTGGACAGTGGACATCACAGGAACTTTAGCAATGCCATCAGCAAAAGCCAGGCCTTCTCTTTGATTCTTGCCC
ACCACATCATGGGTGCCGGGTTTGGCTTCCATAACATCAAAGATCCTGACCAGAACACATTTGCTGGCCTGGCCA
GAAGTTCAGTGAGACACCTGGATCTTTACATGGGTTTGTCTTCTCCCTGAACTCACGAGTCTTTGAGACACTCA
AGGATTTGAAGGTTCTGAACCTTGCCCTACAACAAGATAAATAAGATTGCAGATGAAGCATTTTACGGACTTGACA
ACCTCCAAGTTCCTCAATTTGTATATAACCTTCTGGGGGAACCTTACAGTTCGAATTTCTATGGACTACCTAAGG
TAGCCTACATTGATTTGCAAAAGAATCACATTGCAATAATTCAAGACCAAACATTCAAATTCCTGGAAAAATTAC
AGACCTTGGATCTCCGAGACAATGCTCTTACAACCATTCATTTTTATTCCAAGCATACCCGATATCTTCTTGAGTG
GCAATAAACTAGTGACTTTTGCCAAAGATCAACCTTACAGCGAACCTCATCCACTTATCAGAAAACAGGCTAGAAA
ATCTAGATATTCTCTACTTTCTTCTACGGGTACCTCATCTCCAGATTCTCATTTTAAATCAAAATCGCTTCTCCT
CCTGTAGTGGAGATCAAACCCCTTCAGAGAATCCCAGCTTAGAACAGCTTTTCTTGGAGAAAATATGTTGCAAC
TTGCCTGGGAACTGAGCTCTGTTGGGATGTTTTTGAGGGACTTTCTCATCTTCAAGTTCTGTATTTGAATCATA
ACTATCTTAATTCCTTCCACCAGGAGTATTTAGCCATCTGACTGCATTAAGGGGACTAAGCCTCAACTCCAACA
GGCTGACAGTTCTTTCTCACAATGATTTACCTGCTAATTTAGAGATCCTGGACATATCCAGGAACCAGCTCCTAG
CTCCTAATCCTGATGTATTTGTATCACTTAGTGTCTTGATATAACTCATAACAAGTTTCAATTTGTGAATGTGAAC
TTAGCACTTTTATCAATTGGCTTAATCACACCAATGTCATATAGCTGGGCCTCCTGCAGACATATATTGTGTGT
ACCCTGACTCGTTCTCTGGGGTTTCCCTCTTCTCTCTTTCCACGGAAGGTTGTGATGAAGAGGAAGTCTTAAAGT
CCCTAAAGTTCTCCCTTTTCATTGTATGCACTGTCACTCTGACTCTGTTTCTCATGACCATCCTCACAGTCACAA
AGTTCGGGGCTTCTGTTTTATCTGTTATAAGACAGCCCAGAGACTGGTGTTCAGGACCATCCCCAGGGCAGAG
AACCTGATATGTACAAATATGATGCCTATTTGTGCTTCAGCAGCAAAGACTTCACATGGGTGCAGAATGCTTTGC
TCAAACACCTGGACACTCAATACAGTGACCAAAACAGATTCAACCTGTGCTTTGAAGAAAGAGACTTTGTCCAG
GAGAAAACCGCATTGCCAATATCCAGGATGCCATCTGGAACAGTAGAAAGATCGTTTGTCTTGTGAGCAGACACT
TCCTTAGAGATGGCTGGTGCCTTGAAGCCTTCAGTTATGCCCAGGGCAGGTGCTTATCTGACCTTAACAGTGCTC
TCATCATGGTGGTGGTGGTCTTGTCCCAGTACCAGTTGATGAAACATCAATCCATCAGAGGCTTTGTACAGA
AACAGCAGTATTTGAGGTGGCCTGAGGATCTCCAGGATGTTGGCTGGTTTCTTCATAAACTCTCTCAACAGATAC
TAAAGAAAAGAAAAGAAAAGAAAAGACAATAACATTCCGTTGCAAACCTGTAGCAACCATCTCCTAAATCAAAGG
AGCAATTTCCAACCTTATCTCAAGCCACAAATAACTCTTCACTTTGTATTTGCACCAAGTTATCATTTTGGGGTCC
TCTCTGGAGGTTTTTTTTTTCTTTTTTGCTACTATGAAAACAACATAAATCTCTCAATTTTCGTATCAAA

1759/2825
FIGURE 1564

MGDHLDLLLGVVLMAGPVEGIPSCSFDGRIAFYRFCNLTQVPQVLNTERLLLSFNYYIRTVTASSFPFLEQLQLL
ELGSQYTPLTIDKEAFRNLPNLRILDIGSSKIYFLHPDAFQGLFHLFELRLYFCGLSDAVLKDGYFRNLKALTRL
DLSKNQIRSLYLHPSFGKLNSLKSIDFSSNQIFLVCEHELEPLQGKTLSSFFSLAANSLSRVSVDWGKCMNPFNR
MVLEILDVSGNGWTVDITGNFSNAISKSQAFSLILAHHIMGAGFGFHNIKDPDQNTFAGLARSSVRHLDLSHGTV
FSLNSRVFETLKDLDKVLNLAYNKINKIADAEAFYGLDNLQVLNLSYNLLGELYSSNFYGLPKVAYIDLQKNHIAII
QDQTFKFLEKLQTLDLRDNALTTIHFIPSIPIFLSGNKLVTLPKINLTANLIHLSNRLENLDILYFLLRVPHL
QILILNQNRFS SCGDQTPSENPSLEQLFLGENMLQLAWETELCWDVFEGLSHLQVLYLNHNLYLNSLPPGVFSL
TALRGLSLNSNRRLTVLSHNDLPANLEILDISRNLQLLAPNPDVFSLSVLDITHNKFICECELSTFINWLNHTNVT
IAGPPADIYCVYPDSFSGVSLFSLSTEGCDEEEVLKSLKFSLFIVCTVTLTLFLMTILTVTKFRGFCFICYKTAQ
RLVFKDHPQGTEPDYKYDAYLCFSSKDFTWVQNALLKHLDTQYSDQNRFNLCFEERDFVPGENRIANIQDAIWN
SRKIVCLVSRHFLRDGWCLEAFSYAQGRCLSDLNLSALIMVVVGSLSQYQLMKHQSI RGFVQKQQYL RWPEDLQDV
GWFLHKLSQQILKKEKEKKKDNNIPLQTVATIS

1760/2825
FIGURE 1565

CGTTGCTGTCGAAATGAAGTGC GCGCTGCGACACCTCCCAGCCCACCGAACTCCGCCGCCATTTCTCGCTTGGC
CTAACGGTTCGGCCAATCCCAGCGCGCATCAAGAAGGACTGAGGCTCCGCCAATCGGAGGCCGCCGATTTGACC
CTTCGCCTCGGCCCCGGCCCAATCCAGGCCCGGCCCGCCGCCCGGCCCGGCCCGGCCCGCGGTGCCCTCTCTCCTC
CCTCTTTGTGCGTCTCGCGCCGCCGCCGCCGCCGCCGCGTGAGAGGACGGGCTCCGCGCGCTCCGGCAGCGCATTG
GGTCCCCCTCCCCCGGGAGGCTTGCGAAGGAGAAGCCGCCGCGCAGAGGAAAAGCAGGTGCCGGTGCCCTGTCCCCGG
GGGCGCCATGGCGACCGGAGCGAACGCCACGCCGTTGGACTTCCCAAGTAAGAAGCGGAAGAGGAGCCGCTGGAA
CCAAGACACAATGGAACAGAAGACAGTGATTCCAGGAATGCCTACAGTTATTCCCCCTGGACTTACTCGAGAACA
AGAAAGAGCTTATATAGGTAAATATACGTTCTGCATCCAAATGCACTTTGAGATTGTTACGATTTATTCTGAGCA
AGATCTGCATTTTTTTGAAAGTTTTGAGATTGTAGTTATCTTTTTTGAGATGAGATACTTTCACGACTTTGGTATCA
TCTGTCAGTTTTTTGCCAGTGAGTTCTGCATTTGCAGCTCCTTGTTTTGGTCTGTTGTAAGTGCAGTGTTCTCC
ATGAGTATCAGGAAGGTAGGGTTTCACTTAGGAGTAAGAACAGTCCCCAGTCCAGCAGCCACCCTTTTCAGCTGC
TGTTCAATTGCCAGTTGATGAGGTGAGTGTCACTGCCTCTCTGGACAGGCCCCAGTGGAGAACACCGCAGGTACT
GTAAACCAAGTACTTTTTCAGCGTGGCCTTTCACCATAATTTTATATTTCTCCCCCTAAAATGTGGTCTTTTAC
TTTTTATAGGTACTTTCTG

1761/2825
FIGURE 1566

MATGANATPLDFPSKKRKRSRWNQDTMEQKTVIPGMPTVIPPGLTREQERAYIGKYTFCIQMHFEIVTIYSEQDL
HFLKV

1762/2825
FIGURE 1567

AGTTACGTTCTGGGGCGTGGCCGGGAGCACGTTGGCTCCGCCCCCTGGCGGCTGCCTCAGCGGCGGGCGGGCGCGCA
GGCTCAGAGCAGACCCCCGCGGCGAGGAGGAGGGAGGGCCGCCAGTGTGACATGCTGCTGGAGGAGGTTTCGCG
CCGGCGACCGGCTGAGTGGGGCGGCGGCCGGGGCGACGTGCAGGAGGTGCGCCGCCTTCTGCACCGCGAGCTGG
TGCATCCCGACGCCCTCAACCGCTTCGGCAAGACGGCGCTGCAGGTCATGATGTTTGGCAGCACCGCCATCGCCC
TGGAGCTGCTGAAGCAAGGTGCCAGCCCCAATGTCCAGGACACCTCCGGTACCAGTCCAGTCCATGACGCAGCCC
GCACTGGATTCTTGGACACCCCTGAAGGTCCTAGTGGAGCACGGGGCTGATGTCAACGTGCCTGATGGCACCGGGG
CACTTCCAATCCATCTGGCAGTTCAAGAGGGTCACACTGCTGTGGTCAGCTTTCTGGCAGCTGAATCTGATCTCC
ATCGCAGGGACGCCAGGGGTCTCACACCCTTGGAGCTGGCACTGCAGAGAGGGGGCTCAGGACCTCGTGGACATCC
TGCAGGGCCACATGGTGGCCCCGCTGTGATCTGGGGTCACCCTCTCCAGCAAGAGAACCCCGTGGGGTTATGTAT
CAGAAGAGAGGGGAAGAAACACTTTCTCTTCTTGTCTTCTCCTGCCCCTGCTGCAGTAGGGGAGGAGCACAGTTT
GTGGCTTATAGGTGTTGGTTTTGGGGGTGTGAGTGTGGGGGACGTTTCTCATTGTCTTCTCACTCCTTTTG
GTGTGTTGGACAGAGAAGGGCTCCTGCAGGCCACAGCCACCTAAACGGTTCAGTTTCTTCTGCGCCTCAGGCTGC
TGGGGCCTCAGACGAGACCCAAGGGCAGAGCATTTAAGAGTGAAGTCATGACCTCCAGGGAGCCTAGAAGCTGGT
GGCCTTGGCCGGCTGTGCTCAGAGACCTGAAGTGTGCACGTTGCTTCAGGCATGGGGGGTGGGGGGAGCGTCCCA
AATCAATAAGAAGGTAGAATGAGTTATGAGTTATTATATCTGTTGGAAGCTTGTTTTCCAGTCTCTTGTACAG
CGTTTTAAAAGAAATGGATTCTATTTATTATGCTTTATTGAAAAAATGTTGTAATAATTTAATGTTTTTACCCA
TTAAATTAAGACTTGTGCATGATCAAAAAAAAAAAAAAAAAAAAA

1763/2825
FIGURE 1568

MLLEEVRAGDRLSGAAARGDVQEVRRLLHRELVHPDALNRFGKTALQVMMFGSTAIALELLKQGASPNVQDTSGT
SPVHDAARTGFLDTLKVLVEHGADVNVDPDGTGALPIHLAVQEGHTAVVSFLAAESDLHRRDARGLTIPLELALQRG
AQDLVDILQGHMVAPL

1764/2825
FIGURE 1569

GGGCGGATGGAAGGGGCCGGGGCAGCGTCGGGGAAAGGAAGGGCCGGAGGCGCGGGCGGGCGGGCCGAGAGGGG
CGGCGGGCGGCGGGCGGGCGGGGTTCCCGCGCCGCGGAGCCCGGCCCGAGAGCCGCGTCCACGTTCCCTGCCTCCT
GCTCCCGCCGCCCTGGGGCGCCGCC**ATG**ACGCCCCGATCTGCTCAACTTCAAGAAGGGATGGATGTCGATCTTGGA
CGAGCCTGGAGAGCCTCCCTCCCCCTCGCTCACCACCACCTCTACTTCGCAGTGGAAGAAACATTGGTTTGTGCT
GACAGATTCAAGTCTCAAATATTACAGAGACTCCACTGCTGAGGAGGCAGATGAGCTGGATGGTGAGATCGACCT
GCGTTCCCTGCACGGATGTCACTGAGTACGCGGTGCAGCGCAACTATGGCTTCCAGATCCACACCAAGGATGCTGT
CTATACCTTGTGCGCCATGACCTCAGGCATCCGGCGGAACTGGATCGAGGCTCTGAGAAAGACCGTACGTCCAAC
TTCAGCCCCAGATGTACCAAGCTCTCGGACTCTAACAAGGAGAACGCGCTGCACAGCTACAGCACCCAGAAGGG
CCCCCTGAAGGCAGGGGAGCAGCGGGCGGGCTCTGAGGTCATCAGCCGGGGTGGCCCTCGGAAGGCGGACGGGCA
GCGTCAGGCCCTTGACTACGTGGAGCTCTCGCCGCTGACCCAGGCTTCCCCGAGCGGGCCCCGACCCAGCCCG
CACTCCTGACCGCCTGGCCAAGCAGGAGGAGCTGGAGCGGGACCTGGCCCAGCGCTCCGAGGAGCGGCGCAAGTG
GTTTGAGGGCCACAGACAGCAGGACCCAGAGGTGCTGCTGGTGAGGGGCCGCGCCGGGGCTGGGTGCCCCCT
GACTGAGGACCAGCAAAACCGCTTAGTGAGGAGATCGAGAAGAAGTGGCAGGAGCTGGAGAAGCTGCCCTGCG
GGAGAATAAGCGGGTGGCCCTCACTGCCCTGCTCAACCAAAGCCGCGGAGAGCGCCGAGGGCCCCCAAGTGACGG
CCACGAGGCACTGGAGAAGGAGGTTCAAGGCTCTTCGGGCCAGCTGGAGGCGTGCGCTCTCAAGGGGAGGCTCC
TCAGAGTGCATGAGATCCAGGAGGATGGCCACATCCCCCGGGCTACATCTCACAGGAGGCATGTGAGCGCAG
CCTGGCAGAGATGGAGTCTCGCACCAGCAGGTGATGGAGGAGCTGCAGCGGCACCACGAGCGGGAGCTGCAGCG
CCTGCAGCAGGAGAAGGAGTGGCTCCTGGCTGAGGAGACGGCAGCCACGGCCTCAGCCATTGAAGCCATGAAGAA
GGCCTACCAGGAAGAGCTGAGCCGAGAGCTGAGCAAAACACGGAGTCTCCAGCAGGGCCCCGATGGCCTCCGGAA
GCAGCACCAGTCAGATGTGGAGGCACTGAAGCGAGAGCTGCAGGTGCTATCGGAGCAGTACTCGCAGAAGTGCT
GGAGATTGGGGCACTCATGCGGCAGGCTGAGGAGCGCGAGCACACGCTGCGCCGCTGCCAGCAGGAGGGGCCAGGA
GCTGCTGCGCCACAACCAGGAGCTGCATGGCCGCTGTGAGAGGAGATAGACCAGCTGCGCGGCTTCATTGCCTC
GCAGGGCATGGGCAATGGCTGCGGGCGCAGCAACGAGCGGAGTTCCCTGCGAGCTAGAGGTGCTGCTTCGCGTAAA
AGAAAACGAACTCCAGTACCTAAAGAAGGAGGTGCAGTGCTCCGGGACGAGCTCCAGATGATGCAGAAGGACAA
GCGCTTCACCTCGGGAAAGTACCAGGACGTCTATGTGGAGCTGAGCCACATCAAGACACGGTCTGAGCGGGAGAT
CGAGCAGCTGAAGGAGCACCTGCGTCTTGCCATGGCCGCCCTCCAGGAGAAGGAGTCGATGCGCAACAGCCTGGC
TGAG**TAG**AGGTCCCGCCAGCTGCAGACCCTCCAGGCTGGAGGACCAGCGCCCTCCTTCCCTCCTGGATGGAAG
TAAAAAGCCAAGCTTTCTCCCCACCCTCTGTGGGCCACACGTGCACTTGACCCACCACACACACACACACAC
ACACACACACACACAGACACACAGACACATACGCACACACGTGCACACATGTACACACGGATACACACACACACA
CACACACTGCATATCTGAGCGCGCCCTCGCACTGGGTCTCACCTTGACCTTCTTCAGGATTTTATATGTGAAG
AGATTTTTATATAGATTTTTTTTCTTTTTTTTCCAAAACACTTTATACTTTAAAAAAGCAATTCC
TGGTGGCTGTGTGCCTCCAACCCTGGTCCCCCTCTGTCTCCAGCCACCCTCTGCTTGGGCTTCTGAGCTGGTGGC
CCTGGCCCAGAGGTCTGGCGGAGGCCCAGGCAGCAGCCATGGCGGGGTGTCTCTACAGGGGAGAGGCGGGAGCCT
GCCACCCTCTTCTGCCCTACCTCCTACTAACACTTCTGCCCCATTGGACCCGTACCATGGGGCTCAGGACAG
AGGGAGCTAGCAGCTGGCCTCCATGGCCCCACAGCCTCCTTCGAGGCTGTGCTGGGTGCAGAACCGCCAGAGCCA
CCCAAAGGTGTTTCTTCTGCTCCCTGAACCTCTTAACCTAATAAAACGTTCCAGCAGCT

1765/2825
FIGURE 1570

MTPDLLNFKKGWMSILDEPGEPSPSLTTTSTSQWKKHWFVLTDSCLKYYRDSTAEAEDEL DGEIDLR SCTDVTE
YAVQRNYGFQIHTKDAVYTLSAMTSGIRRNWIEALRKTVRPTSAPDVTKLSDSNKENALHSYSTQKGPLKAGEQR
AGSEVISRGGPRKADGQRQALDYVELSPLTQASFPQRARTPARTPDRLAKQEELERDLAQRSEERRKWFEATDSRT
PEVPAGEGPRRGLGAPLTEDQQNRLSEEIEKKWQELEKLPLRENKRVPLTALLNQSRGERRGPPSDGHEALEKEV
QALRAQLEAWRLQGEAPQSALRSQEDGHIPPGYISQEACERSLAEMESSHQVMEELQRHHERELQRLQQEKEWL
LAEETAATASAI EAMKKAYQEELSRELSKTRSLQQGPDGLRKQHQS DVEALKRELQVLSEQYSQKCLEIGALMRQ
AEEREHTLRRCQEGQELLRHNQELHGR LSEEIDQLRGFIASQGMGNCGRSNERS SCELEVLLRVKENELQYLK
KEVQCLRDELQMMQDKRFTSGKYQDVYVELSHIKTRSEREIEQLKEHLRLAMAALQEKESMRNSLAE

1766/2825
FIGURE 1571

ATGCGGCATTCCAAAAGAACTCACTGTCCTGATTGGGATAGCAGAGAAAGCTGGGGACATGAAAGCTATCGTGGA
AGTCACAAGCGGAAGAGGAGATCTCATAGTAGCACACAAGAGAACAGGCATTGTAAACCACATCACCAGTTTAAA
GAATCTGATTGTCATTATTTAGAAGCAAGGTCCTTGAATGAGCGAGATTATCGGGACCGGAGATACGTTGACGAA
TACAGGAATGACTACTGTGAAGGATATGTTCCCTAGACATTATCACAGAGACATTGAAAAGCGGGTATCGAATCCAC
TGCAGTAAATCTTCAGTCCGCAGCAGGAGAAGCAGTCCTAAAAGGAAGCGCAATAGACACTGTTCAAGTCATCAG
TCACGTTCTGAAGAGCCACCGAAGGAAAAAGATCCAGGAGTATAGAGGATGATGAGGAGGGTCACCTGATCTGTCAA
AGTGGAGACGTTCTAAGAGCAAGATATGAAATCGTGGACACTTTGGGTGAAGGAGCCTTTGGCAAAGTTGTAGAG
TGCATTGATCATGGCATGGATGGCATGCATGTAGCAGTGAAAATCGTAAAAAATGTAGGCCGTTACCGTGAAGCA
GCTCGTTTCAGAAATCCAAGTATTAGAGCACTTAAATAGTACTGATCCCAATAGTGTCTTCCGATGTGTCCAGATG
CTAGAATGGTTTGATCATCATGGTCATGTTTGTATTGTGTTTGAAGTACTGGGACTTAGTACTTACGATTTTCATT
AAAGAAAACAGCTTTCTGCCATTTCAAATTGACCACATCAGGCAGATGGCGTATCAGATCTGCCAGTCAATAAAT
TTTTTACATCATAATAAATTAACCCATACAGATCTGAAGCCTGAAAATATTTTGTGTTGTGAAGTCTGACTATGTA
GTCAAATATAATTCTAAATGAAACGTGATGAACGCACACTGAAAAACACAGATATCAAAGTTGTTGACTTTGGA
AGTGCAACGTATGATGATGAACATCACAGTACTTTGGTGTCTACCCGGCACTACAGAGCTCCCGAGGTCATTTTG
GCTTTAGGTTGGTCTCAGCCTTGTGATGTTTGGAGCATAGGTTGCATTCTTATTGAATATTACCTTGGTTTCACA
GTCTTTCAGACTCATGATAGTAAAGAGCACCTGGCAATGATGGAACGAATATTAGGACCCATACCACAACACATG
ATTCAGAAAACAAGAAAACGCAAGTATTTTCACCATAACCAGCTAGATTGGGATGAACACAGTTCTGCTGGTAGA
TATGTTAGGAGACGCTGCAAACCGTTGAAGGAATTTATGCTTTGTCATGATGAAGAACATGAGAACTGTTTGAC
CTGGTTCGAAGAATGTTAGAATATGATCCAACCTCAAAGAATTACCTTGATGAAGCATTGCAGCATCCTTTCTTT
GACTTATTAAGAAAGAAATGAAATGGGAATCAGTGGTCTTACTATATACTTCTCTAGAAGAGATTACTTAAGACT
GTGTCAGTCAACTAAACATTCTAATATTTTTGTAAACATTAAATTATTTTGTACAGTTAAGXGTAAATATTGTAT
GTTTTGTATCAATAGCATAATTAACCTGTTAAGCAAGTATGGTCTTGATAATGCATTAGAAAAATTAAATTAAT
TTTTCTTTTTGAAATTACCATTTTTTAAAAACCTTTGAAATATCCTTTGTGTCCAGTGATAAATGTGATTGATCTT
GCCTTTTGTACATGGAGGTCACCTCTGAAGTGATTTTTTTTTGAGTAAAAGGAAATCTTGACTACTTTAAAAAAA
AAAAAAAAAAAAAA

1767/2825
FIGURE 1572

MRHSKRTHCPDWDSRESWGHEsyRGSHKRKRSHSSTQENRHCKPHHQFKESDCHYLEARSLNERDYRDRRYVDE
YRNDYCEGYVPRHYHRDIESGYRIHCSKSSVRSRRSSPKRKRNRHCSSHQSRKSHRRKRSRSIEDDEEGHLICQ
SGDVLRARYEIVDTLGEAGFGKVVECIDHGMDGMHVAVKIVKNVGRYREAAARSEIQVLEHLNSTDPNSVFRCVQM
LEWFDHHGHVCIVFELLGLSTYDFIKENSFLPFQIDHIRQMAYQICQSINFLHHNKLTHTDLPENILFVKSDYV
VKYNSKMKRDERTLKNTDIKVVDGFSATYDDEHHSTLVSTRHYRAPEVILALGWSQPCDVWSIGCILIEYYLGFT
VFQTHDSKEHLAMMERILGPIQHMIQKTRKRKYFHHNQLDWDEHSSAGRYVRRRCKPLKEFMLCHDEEHEKLF
LVRRMLEYDPTQRITLDEALQHPFFDLLKKK

1768/2825
FIGURE 1573

GCCTCCAGCTGACCTCTGGCTCCTGTCCTCTGGCTCCACCTGCACCGCCCTGCTCTTCCTAAGGGGCCAGGAAGC
CCCCAGAAGCTCTACCATCGACGTGGGTGGTGGCACCCGGCTCACCTGAGAGCAGAGGGCGTGCAGGGGGCTCA
GTTCTGAGCCCAGCCGGCCACC**ATG**GCACGGCGGTTCCAGGAGGAGCTGGCCGCCCTTCCTCTTCGAGTATGACA
CCCCCGCATGGTGCTGGTGCGTAATAAGAAGGTGGGCGTTATCTTCCGACTGATCCAGCTGGTGGTCTCTGGTCT
ACGTCAATCGGGTGGGTGTTTCTCTATGAGAAGGGCTACCAGACCTCGAGCGGCCCTCATCAGCAGTGTCTCTGTGA
AACTCAAGGGCCTGGCCGTGACCCAGCTCCCTGGCCTCGGCCCCCAGGTCTGGGATGTGGCTGACTACGTCTTCC
CAGCCCAGGGGGACAACCTCCTTCGTGGTCATGACCAATTTTCATCGTGACCCCGAAGCAGACTCAAGGCTACTGCG
CAGAGCACCCAGAAGGGGGCATATGCAAGGAAGACAGTGGCTGTACCCCTGGGAAGGCCAAGAGGAAGGCCCAAG
GCATCCGCACGGGCAAGTGTGTGGCCTTCAACGACACTGTGAAGACGTGTGAGATCTTTGGCTGGTGGCCCGTGG
AGGTGGATGACGACATCCCGCGCCCTGCCCTTCTCCGAGAGGCCGAGAATTCACCTCTTTTCATCAAGAACAGCA
TCAGCTTTCCACGCTTCAAGGTCAACAGGCGCAACCTGGTGGAGGAGGTGAATGCTGCCACATGAAGACCTGCC
TCTTTTACAAGACCCTGCACCCCTGTGCCAGTCTTCCAGCTTGGCTACGTGGTGCAAGAGTCAGGCCAGAAT
TCAGCACCTGGCTGAGAAGGGTGGAGTGGTTGGCATCACCATCGACTGGCACTGTGACCTGGACTGGCACGTAC
GGCACTGCAGACCCATCTATGAGTTCCATGGGCTGTACGAAGAGAAAAATCTCTCCCAGGCTTCAACTTCAGGT
TTGCCAGGCACTTTGTGGAGAACGGGACCAACTACCGTCACCTCTTCAAGGTGTTTGGGATTGCTTTGACATCC
TGGTGGACGGCAAGGCCGGGAAGTTTGACATCATCCCTACAATGACCACCATCGGCTCTGGAATTGGCATCTTTG
GGGTGGCCACAGTTCTCTGTGACCTGCTGCTGCTTACATCCTGCCTAAGAGGCACTACTACAAGCAGAAGAAGT
TCAAATACGCTGAGGACATGGGGCCAGGGGCGGCTGAGCGTGACCTCGCAGCTACCAGCTCCACCCTGGGCCTGC
AGGAGAACATGAGGACATCC**TGA**TGCTCGGGCCCCAACTCCTGACTGGGTGCAGCGTGAGGCTTCAGCCTGGAGC
CCTGGTGGGTCCCAGCCAGGGCAGAGGGGCCCTCCCCAGGAAGTCTCCTACCCTCTCAGCCAGGCAGAGAGCAGTT
TGCCAGAAGCTCAGGGTGCATAGTAGGAGAGACCTGTGCAAATCTGAGCTCCGGCTCCGACCCACACACCCTGA
GGGAGGCCTACCCTAGCCTCAGCCGCTCCTGGTGGGGGAATGGCTGGGGGTGGGCAGGACCCTCCCACACACCT
GCACCCTAGCTTCGTGCTTCTCTCTCCGGACTCTCAATTATCCAACCCGCTGCCTCCATTTCTCTAGATCTGTGCT
CTCCGATGTGGCAGTCAGTAACCATAGGTGACTAAATTAACTAAAATAAAATAGAATGAAACACAAAATTCAAT
TCCTCGGCTGAACTAGCCACATTTCAACTGCTCAGTAGATACGTGTGGTTAGTGGCTGCCATACTGGACAGCTCG
GGGCATTTTCACTGTCAAAGAAAGTTCTATTAGACAGCCCTGCTTGAGCCCTGTTTCTTCCTGGCTTCGGTTTCC
CTGGGGAACTTATCGACAATGCAAGCTCCTGGGCCCACCCCGAGACCTCCTGAACCAAAAGCTCCAGGGCTGGCC
GTATGATCTGTGTGGATGGCAAACTCCCCAGGCCATTCTGGGACCTAAGTTTAAGAAGTGCCGTCCTCGAAGTTT
CTGACTCTAAGCTCCTGAGCGGGAGTCAGACTTAGCCCTGAGCCTGCACCTCCTGTTTCAAGGTGCAGACACTGAAC
AGGGTCTCAAACACCTTCAGCATGTGTGTTGTGTGCTCACGTGCCACACAGTGTCTCATGCACACAACCCAGTGT
ACACACCACCTACGTGCACACAGCATCCTTCCACACTGTGTATGTGAACAGCTTGGGCCCTGCAAACACAACCAT
CTACACACATCTACACCCCAAGCACACACACATGGTCCGTGCCATGTACCTCCATAGGGAAAGGCTTCTCTCC
AAGTGTGCCAGGCCAGGACAGCCCTCCCAGCCATGAATCCTTACTCAGCTACCTCGGGTGGGGTGGGAGCCCCA
GCCAAATCCTGGGCTCCCTGCCTGTGGCTCAGCCCCAGCTCCCAAGGCCTGCCTGGCTCTGTCTGAACAGAAGGT
CTGGGGGAAGCGAGGGGTGGAGTACAATAAAGGGAATGAGGACAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAAA

1769/2825

FIGURE 1574

MARRFQEELAAFLFEYDTPRMVLVRNKKVGVI FRLIQLVVLVYVIGWVFLYEKGYQTSSGLISSVSVKLKGLAVT
QLPGLGPQVWDVADYVFPAQGDNSFVVMTNFIVTPKQTQGYCAEHPEGGICKEDSGCTPGKAKRKAQGIRTGKCV
AFNDTVKTCEIFGWCPVEVDDDI PRPALLREAENFTLF IKNSISFPRFKVNRRNLVEEVNAAHMKTCLEFHKTLHP
LCPVFQLGYVVQESGQNFSTLAEKGGVVGITIDWHCDLDWHVRHCRPIYEFHGLYEEKNLSPGFNFRFARHFVEN
GTNYRHLEFKVFGIRFDILVDGKAGKFDI IPTMTTIGSGIGIFGVATVLCDLLLLHILPKRHYYKQKKFKYAEDMG
PGAAERDLAATSSTLGLQENMRTS

1770/2825
FIGURE 1575

ATGGAGAGGGGGCTGCCGCTCCTCTGCGCCGTGCTCGCCCTCGTCTCGCCCCGGCCGGCGCTTTTCGCAACGAT
GAATGTGGCGATACTATAAAAAATTGAAAGCCCCGGGTACCTTACATCTCCTGGTTATCCTCATTCTTATCACCCA
AGTGAAAAATGCGAATGGCTGATTGAGGCTCCGGACCCATACCAGAGAATTATGATCAACTTCAACCCTCACTTC
GATTTGGAGGACAGAGACTGCAAGTATGACTACGTGGAAGTCTTCGATGGAGAAAAATGAAAATGGACATTTTAGG
GGAAAGTTCTGTGGAAAGATAGCCCCCTCCTCCTGTTGTGTGCTTTCAGGGCCATTTCCTTTTATCAAATTTGTCTCT
GACTACGAAACACATGGTGCAGGATTTTCCATACGTTATGAAATTTTCAAGAGAGGTCCCTGAATGTTCCCGAAC
TACACAACACCTAGTGGAGTGATAAAGTCCCCCGGATTCCCTGAAAAATATCCCAACAGCCTTGAATGCACTTAT
ATTGTCTTTGCGCCAAAGATGTCAGAGATTATCCTGGAATTTGAAAGCTTTGACCTGGAGCCTGACTCAAATCCT
CCAGGGGGGATGTTCTGTGCTACGACCGGCTAGAAATCTGGGATGGATTCCCTGATGTTGGCCCTCACATTGGG
CGTTACTGTGGACAGAAAACACCAGGTGCAATCCGATCCTCATCGGGCATTCTCTCCATGGTTTTTTTACACCGAC
AGCGCGATAGCAAAAGAAGGTTTCTCAGCAAACCTACAGTGTCTTGCAGAGCAGTGTCTCAGAAGATTTCAAATGT
ATGGAAGCTCTGGGCATGGAATCAGGAGAAATTCATTCTGACCAGATCACAGCTTCTTCCAGTATAGCACCAAC
TGGTCTGCAGAGCGCTCCCGCCTGAACTACCCTGAGAATGGGTGGACTCCCGGAGAGGATTCCCTACCGAGAGTGG
ATACAGGTAGACTTGGGCCTTCTGCGCTTTGTACGGCTGTCTGGGACACAGGGCGCCATTTCAAAGAAACCAAG
AAGAAATATTATGTCAAGACTTACAAGATCGACGTTAGCTCCAACGGGGAAGACTGGATCACCATAAAAGAAGGA
AACAAACCTGTTCTCTTTTTCAGGGAAACACCAACCCACAGATGTTGTGGTTGCAGTATCCCCAAACCACTGATA
ACTCGATTTGTCCGAATCAAGCCTGCAACTTGGGAAACTGGCATATCTATGAGATTTGAAGTATACGGTTGCAAG
ATAACAGATTATCCTTGCTCTGGAATGTTGGGTATGGTGTCTGGACTTATTTCTGACTCCCAGATCACATCATCC
AACCAAGGAGACAGAACTGGATGCCTGAAAACATCCGCTGGTAACCAGTCGCTCTGGCTGGGCACTTCCACCC
GCACCTCATTCTACATCAATGAGTGGCTCCAAATAGACCTGGGGGAGGAGAAGATCGTGAGGGGCATCATCATT
CAGGGTGGGAAGCACCGAGAGAAACAAGGTGTTTCATGAGGAAGTTCAAGATCGGGTACAGCAACAACGGCTCGGAC
TGGAAGATGATCATGGATGACAGCAAAACGCAAGGCGAAGTCTTTTGAGGGCAACAACAACCTATGATACACCTGAG
CTGCGGACTTTTCCAGCTCTCTCCACGCGATTTCATCAGGATCTACCCCGAGAGAGCCACTCATGGCGGACTGGGG
CTCAGAATGGAGCTGCTGGGCTGTGAAGTGGAAAGCCCTACAGCTGGACCGACCCTCCCAACGGGAACCTGGTG
GATGAATGTGATGACGACCAGGCCAACTGCCACAGTGGAACAGGTGATGACTTCCAGCTCACAGGTGGCACCCT
GTGCTGGCCACAGAAAAGCCCACGGTCATAGACAGCACCATAACAATCAGAGTTTCCAACATATGGTTTTAACTGT
GAATTTGGCTGGGGCTCTCACAAGACCTTCTGCCACTGGGAACATGACAATCACGTGCAGCTCAAGTGGAGTGTG
TTGACCAGCAAGACGGGACCCATTGAGGATCACACAGGAGATGGCAACTTCATCTATTCCAAGCTGACGAAAAT
CAGAAGGGCAAAGTGGCTCGCCTGGTGAGCCCTGTGGTTTATTCCAGAACTCTGCCCCTGCATGACCTTCTGG
TATCATATGTCTGGGTCCCACGTCCGCACACTCAGGGTCAAACCTGCGCTACCAGAAGCCAGAGGAGTACGATCAG
CTGGTCTGGATGGCCATTGGACACCAAGGTGACCACTGGAAGGAAGGGCGTGTCTTGCTCCACAAGTCTCTGAAA
CTTTATCAGGTGATTTTTCGAGGGCGAAAATCGGAAAAGGAAACCTTGGTGGGATTGCTGTGGATGACATTAGTATT
AATAACCACATTTTACAAGAAGATTGTGCAAAACCAGCAGACCTGGATAAAAAGAACCAGAAAATTAAATTTGAT
GAAACAGGGAGCACGCCAGGATACGAAGGTGAAGGAGAAGGTGACAAGAACATCTCCAGGAAGCCAGGCAATGTG
TTGAAGACCTTAGAACCCATCCTCATCACCATCATAGCCATGAGCGCCCTGGGGGTCTCCTGGGGGCTGTCTGT
GGGGTCGTGCTGTACTGTGCCTGTTGGCATAATGGGATGTGAGAAAGAACTTGTCTGCCCTGGAGAACTATAAC
TTTGAACCTGTGGATGGTGTGAAGTTGAAAAAAGACAACTGAATACACAGAGTACTTATTCGGAGGCATGA

1771/2825
FIGURE 1576

MERGLPLLCAVLALVLA
PAGAFRNDECGDTIKIES
PGYLTSPGYPHSYHPSEK
CEWLIQAPDPYQRIMINF
NPHFDLED
RDCKYDYVEVFDGENENG
HFRGKFCGKIAPPPVVS
SGPFLFIKFVSDYETHG
AGFSIRYEIFKRGPECS
QNYTTPSGVIKSPGFPE
KYPNSLECTYIVFAPKM
SEIILEFESFDLEPDSN
PPGGMFCRYDRLEIWDG
FPDVGPHIGRYCGQKT
PGRIRSSSGILSMVFY
TDSIAIAKEGFSANYS
VLQSSVSEDFKCMEAL
GMESGEIHSDQITASS
QYSTNWSAERSRLNYP
ENGWTPGEDSYREWIQ
VDLGLLRFVTAVGTQGA
ISKETKKKYYVKTYKID
VSSNGEDWITIKENK
PVLFQGNNTNPTDVVV
AVFPKPLITRFVRIKPA
TWETGISMRFEVYGCKI
TDYPCSGMLGMVSGLI
SDSQITSSNQGDRNW
MPENIRLVTSRSGWAL
PPAPHSYINEWLQIDL
GEEKIVRGIIIQGKHK
RENKVFMRKFKIGYSN
NGSDWKMIMDDSKRKA
KSFEGNNNYDTPELR
TFPALSTRFIRIYPER
ATHGGLGLRMELLGCE
VEAPTAGPTTPNGNL
VDECDDDQANCHSGT
GDDFQLTGTTVLATE
KPTVIDSTIQSEFPTY
GFNCEFGWGSHKTFCH
WEHDNHVQLKWSV
LTSKTGPIQDHTGDG
NFIYSQADENQKGKVA
RLVSPVVYSQNSAHC
MTFWYHMSGSHVGT
LRVKLRYQKPEEYDQ
LVWMAIGHQGDHWKE
GRVLLHKSLLKLYQV
IFEIGEIGKGNLGGI
AVDDISINNHSQEDCA
KPADLDKKNPEIKID
ETGSTPGYEGEGEDK
NISRKPGNVLKTLEP
ILITIIAMSALGVLLG
AVCGVVLYCACWHNGM
SERNLSALENYNFEL
VDGVKLKKDKLNTQ
STYSEA

1772/2825
FIGURE 1577

CTGGCATCCCGAGAAGCCAGGAAGCAGTGAGCCCAGGAGTCCTCGGCCAGCCCTGCCTGCCCACCAGGAGGATGA
AGGTCTCCGTGGCTGCCCTCTCCTGCCTCATGCTTGTTACTGCCCTTGGATCCCAGGCCCCGGGTCACAAAAGATG
CAGAGACAGAGTTCATGATGTCAAAGCTTCCATTGGAAAATCCAGTACTTCTGGACAGATTCCATGCTACTAGTG
CTGACTGCTGCATCTCCTACACCCACGAAGCATCCCGTGTTCACTCCTGGAGAGTTACTTTGAAACGAACAGCG
AGTGCTCCAAGCCGGGTGTCATCTTCCTCACCAAGAAGGGGCGACGTTTCTGTGCCAACCCCAAGTGATAAGCAAG
TTCAGGTTTGCATGAGAATGCTGAAGCTGGACACACGGATCAAGACCAGGAAGAATTGAACTTGTCAAGGTGAAG
GGACACAAGTTGCCAGCCACCAACTTTCTTGCCTCAACTACCTTCCTGAATTATTTTTTTAAGAAGCATTATTTC
TTGTGTTCTGGATTTAGAGCAATTCACTAATAAACAGTTTCTCACTTTT

1773/2825
FIGURE 1578

MKVSVAALSCLMLVTALGSQARVTKDAETEFMMSKLPLENPVLLDRFHATSADCCISYTPRSIPCSLLESYFETN
SECSKPGVIFLTKKGRRFCANPSDKQVQVCMRMLKLDTRIKTRKN

1774/2825
FIGURE 1579

CCCAAGCCTTCGGGTAGGGTGCCTTCAGCCGCTACAAGAGCAGAAGCAGTGGGCATTGGATGGAGCTGAGTACAG
GACCATACAGGCTAATTGCACCGGCACAGTGAAATAAGATTTGCGCCGCTATCATCTGCTAACTGCTACGGACTC
AGGCTCAGAAAGGCCTGCGCTTCACCCAGGAATCGGATATAACATCATCTGGGTACCCATGGCCAGCTGTGACTT
CTCCATCCGCACCTACACCTATGCAGACACCCCTGATGATTTCCAGTTGCACAACCTTCAGCCTCCCAGAGGAAGA
TACCAAGCTCAAGATAACCCCTGATTACCCGAGCCCTGCAGTTGGCCCAGCGTCCCGTTTCACTCCTTGCCAGCCC
CTGGACATCACCCACTCGGCTCAAGACCAGGGGAGCGGGGAATGGGAAGGGGCCACTCAAGGGACAGCCCAGAGA
CATCTACCACCAGACCTGGGCCAGATACATTGTGAAGTTCCTGGATGCCTATGCTGAGCACAAGTTACAGTTCTG
GGCAGTGACAGCTGAAAATGAGCCTTCTGCTGGGCTGTTGAGTGGATACCCCTTCCAGTGCCTGGGCTTCACCCC
TGAACATCAGCGAGACTTCATTGCCCCGTGACCTAGGTCCCTACCCTTGCCAACGGTACTCACCACAATGTCCGCCT
ACTCATGCTGGATGACCAACGCTTGCTGCTGCCCCACTGGGCAAAGGTGGTACTGACAGACCCAGAAGCAGCTAA
GTATGTTTCATGGTATTGCTGTACATTGGTACCTGGACTTTCTGGCTCCAGCCAAAGCCACCCTAAGGGAGACACA
CCACCTGTTCCCAACACCATGCTCTTTGCCTCAGAGGCCTGTGTGGGTTCAGTTCTGGGAGCAGAGTGTGCG
GCTAGGCTCCTGGGATCGAGGGATGCAGTACAGCCACAGCATCATCACAACCTCCTGTACCATGTGGTCGGCTG
GACCGACTGGAACCCATCATTGTAGACATCACCAAGCACACGTTTTTACAAACAGCCCATGTTCTACCACCTTGGC
CACTTCAGCAAGTTTCATTCTGAGGGCTCCCAGAGAGTGGGGCTGGTTGCCAGTCAGAAGAACGACCCGGACGCA
GTGGCACTGATGCATCCCGATGGCTCTGCTGTTGTGGTCGTGCTAAACCGCTCCTCTAAGGATGTGCCTCTTACC
ATCAAGGATCCTGCTGTGGGCTTCCTGGAGACAATCTCACCTGGCTACTCCATTACACCTACCTGTGGCGTCGC
CAGTGATGGAGCAGATACTCAAGGAGGCACTGGGCTCAGCCTGGGCATTAAAGGGACAGAGTCAGCTCACACGCT
GTCTGTGACTAAAGAGGGCACAACAGGGCCAGCGTGACGTTACAGCGACGTAAGCCCAGGGGCAATGGTTTGGGT
GACTCACTTTCCCCTCTAGGCGGTGCCAGGGGCTGGAGGCCCTAGAAAAAGATCAGTAAGCCCCAGTGTCCCCC
CAGCCCCCATGCTTATGTGAACATGCGCTGTGTGCTGCTTGCTTTGGAACTGGGCCTGGGTCCAGGCCTAGGGT
GAGCTCACTGTCCGTACAAACACAAGATCAGGGCTGAGGGTAAGGAAAAGAAGAGACTAGGAAAAGCTGGGCCCAA
AACTGGAGACTGTTTGTCTTTCTGAGAGATGCAGAACTGGGCCCGTGGAGCAGCAGTGTGAGCATCAGGGCGGAA
GCCTTAAAGCAGCAGCGGTGTGCCAGGCACCCAGATGATTCCTATGGCACCAGCCAGGAAAAATGGCAGCTCT
TAAAGGAGAAAATGTTTGAAGCC

1775/2825
FIGURE 1580

MASCDFSIRTYTYADTPDDFQLHNFSLPEEDTKLKIPLIHRALQLAQRPVSLASPWTSPTRLKTRGAGNGKGPL
KGQPRDIYHQTWARYIVKFELDAYAEHKLQFWAVTAENEPSAGLLSGYPFQCLGFTPEHQRDFIARDLGPTLANGT
HHNVRLMLDDQRLLLPHWAKVVLTDPEAAKYVHGIAVHWYLDLAPAKATLRETHHLFPNTMLFASEACVGSKF
WEQSVRLGSWDRGMQYSHSIITNLLYHVVGWTDWNPSL

1776/2825
FIGURE 1581

CGCAGCTCAACCTGAGCTACACAGCCAGATGCGAGATGCTTCTCTGCTGATCTGAGTCTGCCTGCAGCATGGACC
TTGGTCTTCCCTGAAGCATCTCCAGGGCTGGAGGGACGACTGCCATGCACCTAGGGCTTATCCATCCGCAGAGCA
GGGCAGTGGGAGGAGACGCT**ATG**ACCCCCATCCTCACGGTCTGATCTGTCTCGGGCTGAGTCTGGGCCCCCGGA
CCCACGTGCAGGCAGGGACCCCTCCCCAAGCCCACACTCTGGGCTGAGCCAGGCTCTGTGATCACCCAGGGGAGTC
CCGTGACCCTCTGGTGTCTAGGGGATCCTGGAGACCCAGGAGTACCGTCTGTATAGAGAAAAGAAAACAGCACCCCT
GGATTACACGGATCCACAGGAGATTGTGAAGAAGGGCCAGTTCCCCATCCCGTCCATCACCTGGGAACACACCG
GGCGGTATCGCTGTTTCTACGGTAGCCACACTGCAGGCTGGTCAGAGCCCAGTGACCCCTGGAGCTGGTGGTGA
CAGGAGCCTACATCAAACCCACCCCTCTCGGCTCTACCCAGCCCTGTGGTGACCTCAGGAGGGAACGTGACCCTCC
ATTGTGTCTCACAGGTGGCATTGTGGCAGCTTATTCTGTGTAAGGAAGGAGAAGATGAACACCCACAATGCCTGA
ACTCACAGCCCCGTACCCATGGGTGGTCCCGGGCCATCTTCTCTGTGGGCCCCGTGAGCCCAGTCTCGCAGGTGGT
CGTACAGGTGCTATGCTTATGACTCGAACTCTCCCCATGTGTGGTCTCTACCCAGTGATCTCCTGGAGCTCCTGG
TCCCAGGAGCAGCTGAGACCCCTCAGCCCACCACAAAACAAGTCCGATTCCAAGGCTGGAGCAGCTAACACCCCTCA
GCCCATCACAAAACAAGACTGCCTCACACCCCCAGGATTACACAGTGGAGAATCTCATCCGCATGGGCATAGCTG
GCTTGGTCTCTGGTGGTCTCGGGATTCTGCTATTTGAGGCTCAGCACAGCCAGAGAAGCCTCT**AG**AGATGCAGCCG
GGAGGTGAACAGCAGAGAGAAGAATGTACCCTTCAGAGTGGTGGAGCCTTGGAACAGATCTGATGATGCCAGGA
GGTTCCGGGAGACAATTTAGGGCTGATGCTATCTGGACTGTCTGCCAATCATTTTTAGAGGGAGGAATCAGTGTT
GGATTGCAGAGACATTTTCTGGAGTGATCCATGAAGGACCATTAAACATGTGATACCTTTCTCTCTATTAATGTT
GACTTCCCTTGGTTGGATCCTCTTCTTTCCCCACCCCCAGACAGACATGAGGCTACATCCCACATGGCAGCGTTG
GGTCCACACCTCTGCACATCTGTGTGCTCTGGTCCATGGTGTGTAACACAGTCTTCTTTATTACTCATTGCCATA
CTCCCTGGTGTGCTTTACTGAGCCTCCATCTCTTCAATTACAGAGTTCCAAACGTGCTTCAGTAACTAAATCAATG
GGAGAGTATCGGATTTCAACCAGGAAAAAGATAAATCCACCCTGATGCCCTGACACCCTCTCTGAACCCTACGAGC
CCTTCCCTCCTTCTCACATGCTACCTGTGCAGCTTCTCCTTAGATCATTGTGTAACCATCACTGCCATCCTGTTT
CACACATGGTCATCACCCCTACACCCATTACAGCAGCCACTCCCCATTCCCTCTTCCCTCCAGCACCTGCTAACCC
AAATGTGCTTTCTGTCTCTACGGATTTCCTTATTCTGTCTGAAAACATTTCAATCTCCTTTGACCTGTGAGCTCC
TCACCTCGAGACTTCCCTGCCTTTCCAGGCAGAACCAAAGTACACCACGTCAAAAGCAATGATAGGCATTTGCAGT
GTGTTGGTGATCCACGAAAGGAAAAATCACGGAAGCAGGATAGAAATCCAGCTGCAGACAAGACCTCAGGTTCGATG
AATCTTGACAAGCAGTTGAGCTGTTTTTTTCTACTCACCTAGGACAGTCAGGCAGAAGTATGCAAAATGACTGGG
GCTGATTCTTTTCTGAATTGTCGCAAAACAGCAAGAGGACTTGAGTCTAGCATTAAAGAGTTCAACATGTCTAGG
TCCAAGACCACTGTTGTGTTTGAAGGATGTAAAACCCTGCTGCATAGGATGGAATATTTGGAGGGAGGATCCTGA
AAAACATGAGGGATCAAATAGTCCTCAACTTTCTAGGACAAAGGGAGCAGCTATTTGCCATCTACCCTCCAGAAT
AAAGAAATCTTATCATTACCATCTACCCTCTAGAATAAAGAAATCTTATCATTGCCATCTACCCTGTAGAATA
AAGAAATCTTATCATTACCGTCTACCCTCTAGAGTAAACAAATCTTATCATTACCATCTACCCTCTAGAATAA
AGAAATCTTATCATTGCCATCTACCCTCTAGAATAAAGAAATCT

1777/2825
FIGURE 1582

MTPILTVLICLGLSLGPRTHVQAGTLFKPTLWAEPGSVITQGSPVTLWCQGILETQEYRLYREKKTAPWITRIPQ
EIVKKGQFPIPSITWEHTGRYRCFYGSHTAGWSEPSDPLELVVTGAYIKPTLSALPSPVVTSGGNVTLHCVSQVA
FGSFILCKEGEDEHPQCLNSQPRTHGWSRAIFSVGPVSPSRRWSYRCYAYDSNSPHVWSLPSDILLELLVPGAAET
LSPPQNKSDSKAGAANTLSPSQNKTAHPQDYTVENLIRMGIAGLVLVVLGILLFEAQHSQRS

1778/2825
FIGURE 1583

AAGAACTGGCCTGTACATTTTCAAGGAATTCTTGAGAGGTTCTTGAGAGATTCTGGGAGCCAAACACTCCATTG
GGATCCTAGCTGTTTTAGAGAACAACCTTGTAATGGAGCCTTCATCTCTTGAGCTGCCGGCTGACACAGTGCAGCG
CATTGCGGCTGAACTCAAATGCCACCCAACGGATGAGAGGGTGGCTCTCCACCTAGATGAGGAAGATAAGCTGAG
GCACCTCAGGGAGTGCTTTTATATTCCCAAAATACAGGATCTGCCTCCAGTTGATTTATCATTAGTGAATAAAGA
TGAAAATGCCATCTATTTCTTGGGAAATTCTCTTGGCCTTCAACCAAAAATGGTTAAAACATACTTTGAAGAAGA
ACTAGATAAGTGGGCCAAAATAGCAGCCTATGGTCATGAAGTGGGGAAGCGTCCTTGATTACAGGAGATGAGAG
TATTGTAGGCCTTATGAAGGACATTGTAGGAGCCAATGAGAAAGAAATAGCCCTAATGAATGCTTTGACTGTAAA
TTTACATCTTCTAATGTTATCATTTTTTTAAGCCTACGCCAAAACGATATAAAAATTCTTCTAGAAGCCAAAGCCTT
CCCTTCTGATCATTATGCTATTGAGTCACAACTACAACCTTCACGGACTTAACATTGAAGAAAAGTATGCGGATGAT
AAAGCCAAGAGAGGGGGAAGAAACCTTAAGAATAGAGGATATCCTTGAAGTAATTGAGAAGGAAGGAGACTCAAT
TGCAGTGATCCTGTTTCAGTGGGGTGCATTTTTACACTGGACAGCACTTTAATATTCTGCCATCACAAAAGCTGG
ACAAGCGAAGGGTTGTTATGTTGGCTTTGATCTAGCACATGCAGTTGGAAATGTTGAACTCTACTTACATGACTG
GGGAGTTGATTTTGCCTGCTGGTGTTCCTACAAGTATTTAAATGCAGGAGCAGGAGGAATTGCTGGTGCCTTCAT
TCATGAAAAGCATGCCCATACGATTAAACCTGCATTAGTGGGATGGTTTGGCCATGAACTCAGCACCAGATTTAA
GATGGATAACAACTGCAGTTAATCCCTGGGGTCTGTGGATTCCGAATTTCAAATCCTCCCATTTTGTGGTCTG
TTCCTTGCATGCTAGTTTAGAGATCTTTAAGCAAGCGACAATGAAGGCATTGCGGAAAAAATCTGTTTTGCTAAC
TGGCTATCTGGAATACCTGATCAAGCATAACTATGGCAAAGATAAAGCAGCAACCAAGAAACCAGTTGTGAACAT
AATTACTCCGTCTCATGTAGAGGAGCGGGGTGCCAGCTAACAATAACATTTTCTGTTCCAAACAAAGATGTTTT
CCAAGAACTAGAAAAAGAGGAGTGGTTTGTGACAAGCGGAATCCAAATGGCATTGAGTGGCTCCAGTTCTCTCT
CTATAATTCTTTCCATGATGTTTATAAATTTACCAATCTGCTCACTTCTATACTTGAAGTCTGCAGAAACAAAAA
TTAGCAGTGTTTTCTAGAACAACCTAAGCAAATTATACTGAAAGCTGCTGTGGTTATTTTCAAGTATTATTCGATTT
TTAATTATTGAAAGTATGTCACCATTGACCACATGTAACCTAACAATAAATAATATACCTTAC

1779/2825
FIGURE 1584

MEPSSLELPADTVQRIAAELKCHPTDERVALHLDEEDKLRHFRFCFYIPKIQDLPPVDLSLVNKDENAIYFLGNS
LGLQPKMVKTYLEEELDKWAKIAAYGHEVGKRPWITGDESIVGLMKDIVGANEKEIALMNALTVNLHLLMLSFFK
PTPKRYKILLEAKAFPSDHYAIESQLQLHGLNIEESMRMIKPREGEETLRIEDILEVIEKEGDSIAVILFSGVHF
YTGQHFNIPAITKAGQAKGCYVGFDLAHAVGNVELYLHDWGVDFACWCSYKYLNAGAGGIAGAFIHEKHAHTIKP
ALVGWFGHELSTRFKMDNKLQLIPGVCGFRISNPPILLVCSLHASLEIFKQATMKALRKKS VLLTGYLEYLIKHN
YGKDKAATKKPVVNIITPSHVEERGCLTITFSVPNKDVFQELEKRGVVCDKRNPNGIRVAPVPLYNFHDVYKF
TNLLTSILDSAETKN

1780/2825
FIGURE 1585

TTTCCCGAGATCACCAAG**ATG**CTGGGCGCCGAGTGGAGCAAGCTGCAGCCAACGGAAAAGCAGCGGTACCTGGAT
GAGGCCGAGAGAGAGAAGCAGCAGTACATGAAGGAGCTGCGGGCGTACCAGCAGTCTGAAGCCTATAAGATGTGC
ACGGAGAAGATCCAGGAGAAGAAGATCAAGAAAAGAAGACTCGAGCTCTGGGCTCATGAACACTCTCCTGAATGGA
CACAAGGGTGGGACTGCGATGGCTTCTCCACCTTCGATGTTCCCATCTTCACTGAAGAGTTCTTGGACCAAAAC
AAAGCGCGTGAGGCGGAGCTTCGGCGCTTGCGGAAGATGAATGTGGCCTTCGAGGAGCAGAACGCGGTACTGCAG
AGGCAAAACGCAGAGCATGAGCAGCGCGCGCAGCGTCTGGAGCAGGAGCTGGCGCTGGAGGAGCGGAGGACGCT
GGCGCTGCAGCAGCAGCTCCAGGCCGTGCGCCAGGCGCTCACCGCCAGCTTCGCCTCACTGCCGGTGCCGGGCAC
GGGCGAAACGCCACGCTGGGCACTCTGGACTTCTACATGGCCCCGGCTTCACGGAGCCATCGAGCGCGACCCCGC
CCAGCACGAGAAGCTCATCGTCCGCATCAAGGAAATCCTGGCCCAGGTCGCCAGCGAGCACCTGTGAGGAGTGGG
CGGGCCCACGATGCAGAGGAGAAGCTGTGGGCGCGGCCCTGCCACACCCACCCCGTGGACGAGAGGCTGGGGGT
CCACCCTTTGGGGCCTGGTCCCATCCTGCACCTTTGGGGGCTCCAGCCCCCTAAAATTAAATTTCTGCAGCATC
CCTTTAGCTTTCAATCTCCCCAGCCCCCTGAACCCGAAAAAGCACTCGCTGCGCGATACACCCAGAAGAACCTC
ACAGCCGAGGTGCCCCCTCCTCGGAGGACAGCCACGCGCTACACTGGCTCTCCGGGCCACCCCCAGGACACAGGG
CAGACGAAACCCACCCCCAGCACACGGCAGGACCCCCAAATTACTCACTACGGGGGGCTGTGCCA**TAG**GCCACA
CAGGAAGCTGCCTTGTGGGGACTTACCTGGGGTGTCCCCCGCATGCCTGTACCCAGATGGGTGGGGGCCGGCTT
TGCCCATCCTGCTCTCCTCCAGCCGAGGGACCCTGGTGGGGGTGGCTCCTTCTCACTGCTGGATCCGGACTTTTT
AAATAAAAACAAGTAAAATTTGTGTTTTAAAA

1781/2825
FIGURE 1586

MLGAEWSKLQPTKQRYLDEAEREKQQYMKELRAYQQSEAYKMCTEKIQEKKIKKEDSSSGLMNTLLNGHKGGDC
DGFSTFDVPIFTEEFLDQNKAREAELRRLRKMNVAFEEQNAVLRQNAEHEQRARASGAGAGAGGAEDAGAAAAA
PGRAPGAHRQLRLTAGAGHGRNAHAGHSGLLHGPA SRSHRARPRPAREAHRPHQGNPGPGRQRAPVRS GRAHDAE
EKLWARPCHTPPRGREAGGPPFGAWSHFAPLGAPAPLKLNFCSIPLAFNLPSPLNPEKALAARYTQKNLTAEGAP
PRRTATRYTGSPGHPQDTGQTKPTPSTRQDPPNYSLRGAVP

1782/2825
FIGURE 1587

GGCACGAGGAACAACCTATTTGCAAAGTTGGCGCAAACATTCTGCCTGACAGGACCATGGACACAGGTTGTAGA
GATAGAGATGGCTCTGGCTGTGCATTCAGCAGATTCTGTAGATAGAATTAATAGGACTTGGATGGGATTGTGGTG
AGAGAAAGTGAAATGAAAGATAAGTTCTAGTTTGGAAAGTTTAAACAACTGAATGTTTAACTCAAATAGACACAA
AATATTGGAAGAGTGGCAGGTTTGGGAGGATGAGACAATCAACTGTTTGGTTGAGCCACGTTAGGTTTGAAATGT
CTACGGGATCCCGTGGGGAGAGGTTATATCAGACTGGAGCACCAGAGAGAGGCCAAGGCTGATAGTTTAGATGAA
AAGAGAGCATGATATTTTAAGCCCTGAGACTGGATAATATCACCTATAGAAAGACTATATAGAGATAAGAGAGGT
GGGGAACAAGTAAAGCTGCGGGACACTCCTAAATTTAGAGTCAAATTTAGAGCAGAAAATACTAGCAAAGGGGA
CTGAAAAGCGGTGGCCAATTGAGCTTCAAATGCAAGTGAAAGTGTGTTGTGTGTACATTTATCATCTCATGGCAC
AGGAAAAACGTGATTTAAGGAGAAGGAAGCGATCCAATGGGAAGAAGAGATCCAATGGATCCTCTATCAGGAAGA
TATTGAGATAAGAACCAATATGGATTTGCACCCACTGCATTTGCAGCCTTGAGGTCATAAGCATCCTCAGGAAAA
TGCACCAGGTGCTGCTGGCAAGATGGAAACCAACTTCTCCACTCCTCTGAATGAATATGAAGAAGTGTCTATGA
GTCTGCTGGCTACACTGTTCTGCGGATCCTCCCATTTGGTGGTGCTTGGGGTCACCTTTGTCTCGGGGTCCTGGG
CAATGGGCTTGTGATCTGGGTGGCTGGATTCCGGATGACACGCACAGTCACCACCATCTGTTACCTGAACCTGGC
CCTGGCTGACTTTTCTTTACGGCCACATTACCATTCTCATTGTCTCCATGGCCATGGGAGAAAAATGGCCTTT
TGGCTGGTTCTGTGTAAGTTAATTCACATCGTGGTGGACATCAACCTCTTTGGAAGTGTCTTCTTGATTGGTTT
CATTGCACTGGACCGCTGCATTTGTGTCTGCATCCAGTCTGGGCCCAGAACCACCGCACTGTGAGTCTGGCCAT
GAAGGTGATCGTCGGACCTTGGATTCTTGCTCTAGTCTTACCTTGCCAGTTTCTCTTTTTGACTACAGTAAC
TATTCCAAATGGGGACACATACTGTACTTTCAACTTTGCATCCTGGGGTGGCACCCTGAGGAGAGGCTGAAGGT
GGCCATTACCATGCTGACAGCCAGAGGGATTATCCGTTTGTCTATTGGCTTTAGCTTGCCGATGTCATTGTTGC
CATCTGCTATGGGCTCATTGCAGCCAAGATCCACAAAAAGGGCATGATTAAATCCAGCCGTCCCTTACGGGTCT
CACTGCTGTGGTGGCTTCTTTCTTCATCTGTTGGTTTCCCTTTCAACTGGTTGCCCTTCTGGGCACCGTCTGGCT
CAAAGAGATGTTGTTCTATGGCAAGTACAAAATCATTGACATCCTGGTTAACCCAACGAGCTCCCTGGCCTTCTT
CAACAGCTGCCTCAACCCCATGCTTTACGTCTTTGTGGGCCAAGACTTCCGAGAGAGACTGATCCACTCCCTGCC
CACCAGTCTGGAGAGGGCCCTGTCTGAGGACTCAGCCCCAACTAATGACACGGCTGCCAATTCTGCTTACCTCC
TGCAGAGACTGAGTTACAGGCAATGTGAGGATGGGGTCAGGGATATTTTGAGTTCTGTTTCATCCTACCCTAATGC
CAGTTCCAGCTTCATCTACCCTTGAGTCATATTGAGGCATTCAAGGATGCACAGCTCAAGTATTTATTCAGGAAA
AATGCTTTTGTGTCCCTGATTTGGGGCTAAGAAATAGACAGTCAGGCTACTAAAATATTAGTGTTATTTTTGT
TTTTGACTTCTGCCTATACCCTGGGGTAAGTGGAGTTGGGAAATACAAGAAGAGAAAGACCAGTGGGGATTTGTA
AGACTTAGATGAGATAGCGCATAATAAGGGGAAGACTTTAAAGTATAAAGTAAAATGTTTGCTGTAGGTTTTTTA
TAGCTATTAAAAAAATCAGATTATGGAAGTTTTCTTCTATTTTTAGTTTGCTAAGAGTTTTCTGTTTCTTTTC
TTACATCATGAGTGGACTTTGCATTTTATCAAATGCATTTTCTACATGTATTAAGATGGTCATATTATCTTCTT
CTTTTATGTAAATCATTATAAATAATGTTTATTAAAGTCTGAATGTTAAACTACTCTTGAATTCCTGGAATAAC
CACACTTAGTCCTGATGTACTTTAAATATTTATATCTCACAGGAGTTGGTTAGAATTTCTGTGTTTATGTTTATA
TACTGTTATTTCACTTTTTCTACTATCCTTGCTAAGTTTTCATAGAAAATAAGGAACAAAGAGAACTTGTAATG
GTCTCTGAAAAGGAATTGAGAAGTAATCCTCTGATTCTGTTTTCTGGTGTATATCTTTATTAAATATTCAGAA
AAATTC

1783/2825
FIGURE 1588

METNFSTPLNEYEEVSYESAGYTVLRILPLVVLGVTFVLGVLGNGLVIWVAGFRMTRTVTTICYLNLALADFSFT
ATLPFLIVSMAMGEKWPFGWFLCKLIHIVVDINLFGSVFLIGFIALDRCICVLHPVWAQNHRTVSLAMKVIVGPW
ILALVLTLPVFLFLTITVTIPNGDTYCTFNFASWGGTPEERLKVAITMLTARGIIRFVIGFSLPMSIVAICYGLIA
AKIHKKGMKSSRPLRVLTAVVASFFICWFPPQLVALLGTVWLKEMLFYGKYKIIDILVNPTSSLAFFNSCLNPM
LYVFVGQDFRERLIHSLPTSLERALSEDSAPTNDTAANSASPPAETELQAM

1784/2825
FIGURE 1589

CGGAGCGAGGCAGCGCGCCCGGCTCCCGCGCC**ATG**GGGCGGCTGGTGGCTGTGGGCTTGCTGGGGATCGCGCTGG
CGCTCCTGGGCGAGAGGCTTCTGGCACTCAGAAATCGACTTAAAGCCTCCAGAGAAGTAGAATCTGTAGACCTTC
CACACTGCCACCTGATTAAAGGAATTGAAGCTGGCTCTGAAGATATTGACATACTTCCCAATGGTCTGGCTTTTT
TTAGTGTGGGTCTAAAATTTCCAGGACTCCACAGCTTTGCACCAGATAAGCCTGGAGGAATACTAATGATGGATC
TAAAAGAAGAAAAACCAAGGGCACGGGAATTAAGAATCAGTCGTGGGTTTTGATTTGGCCTCATTCAATCCACATG
GCATCAGCACTTTTCATAGACAACGATGACACAGTTTATCTCTTTGTTGTAAACCACCCAGAATTCAAGAATACAG
TGGAATTTTTTAAATTTGAAGAAGCAGAAAATTCTCTGTTGCATCTGAAAACAGTCAAACATGAGCTTCTTCCAA
GTGTGAATGACATCACAGCTGTTGGACCGGCACATTTCTATGCCACAAATGACCACTACTTCTCTGATCCTTTCT
TAAAGTATTTAGAAACATACTTGAACCTTACACTGGGCAAATGTTGTTTACTACAGTCCAAATGAAGTTAAAGTGG
TAGCAGAAGGATTTGATTGAGCAATGGGATCAATATTTACCTGATGATAAGTATATCTATGTTGCTGACATAT
TGGCTCATGAAATTCATGTTTTGGAAAAACACACTAATATGAATTTAACTCAGTTGAAGGTACTTGAGCTGGATA
CACTGGTGGATAATTTATCTATTGATCCTTCTCGGGGGACATCTGGGTAGTCTGTCTATCCTAATGGCCAGAAGC
TCTTCGTGTATGACCCGAACAATCCTCCCTCGTCAGAGGTTCTCCGCATCCAGAACATTCTATCTGAGAAGCCTA
CAGTGACTACAGTTTATGCCAACAATGGGTCTGTTCTCCAAGGAAGTTCTGTAGCCTCAGTGTATGATGGGAAGC
TGCTCATAGGCACCTTTATACCACAGAGCCTTGATTGTGAACCT**TAA**ATTGTACTTTTGGCATGAAAGTGCGATA
ACTTAACAATTAATTTTCTATGAAATTGCTAATTCTGAGGGAATTTAACCAGCAACATTGACCCAGAAATGTATG
GCATGTGTAGTTAATTTTATTCCAGTAAGGAACGGCCCTTTTAGTTCTTAGAGCACTTTTAACAAAAAAGGAAAA
TGAACAGGTTCTTTAAAATGCCAAGCAAGGGACAGAAAAGAAAGCTGCTTTTGAATAAAGTGAATACATTTTGCA
CAAAGTAAGCCTCACCTTTGCCTTCCAAGTCCAGAACATGGATTCCACTGAAATAGAGTGAATTATATTTTCTT
AAAAATGTGAGTGACCTCACTTCTGGCACTGTGACTACTATGGCTGTTTAGAACTACTGATAATAACGTATTTTGA
TGTTTTGTACTTACATCTTTGTTTACCATTAAAAAGTTGGAGTTATATTAAAGACTAACTAAAAATCCCCAAAAAA
AAAAAAAAAAAAAAAAAAAAAAAAAAAA

1785/2825
FIGURE 1590

MGRLVAVGLLGIALALLGERLLALRNRLKASREVESVDLPHCHLIKIEAGSEIDILPNGLAFFSVGLKFPGLH
SFAPDKPGGILMMDLKEEKPRARELRISRGFDLASFNPHGISTFIDNDDTVYLFVNVHPEFKNTVEIFKFEEAEN
SLLHLKTVKHELLPSVNDITAVGPAHFYATNDHYFSDPFLKYLETYLNLHWANVVYYSPNEVKVVAEGFDSANGI
NISPDDKYIYVADILAHEIHVLEKHTNMNLTQLKVLELDTLVDNLSIDPSSGDIWVVCHPNGQLFVYDPNNPPS
SEVLRIQNILSEKPTVTTVYANNGSVLQGSSVASVYDGKLLIGTLYHRALYCEL

1786/2825
FIGURE 1591

CAGTATCCCTCCTGACAAAACCTAACAAAAATCCTGTTAGCCAAATAATCAGCCACATTCATATTTACCGTCAAAG
TTTTTATCCTCATTTTTACAGCAGTGGAGAGCGATTGCCCCGGGTCCCACGTTAGGAAGAGAGAGAACTGGGATTT
GCACCCAGGCAATCTGGGGACAGAGCTGTGATCACAACTCCATGAGTCAGGGCCGAGCCAGCCCCTTACCCACCA
GCCGGCCGCGCCCCGGGAAGGAAGTTTGTGGCGGAGGAGGTTTCGTACGGGAGGAGGGGGAGGCGCCACGCATCT
GGGGCTGACTCGCTCTTTTCGAAAACGTCTGGGAGGAGTCCCTGGGGCCACAAAACCTGCCTCCTTCCTGAGGCCA
GAAGGAGAGAAGACGTGCAGGGACCCCGCGCACAGGAGCTGCCCTCGCGACATGGGTACCCGCCGCTGCTGCCG
CTGCTGCTGCTGCTCCACACCTGCGTCCCAGCCTCTTGGGGCCTGCGGTGCATGCAGTGTAAGACCAACGGGGAT
TGCCGTGTGGAAGAGTGCGCCCTGGGACAGGACCTCTGCAGGACCACGATCGTGCGCTTGTGGGAAGAAGGAGAA
GAGCTGGAGCTGGTGGAGAAAAGCTGTACCCACTCAGAGAAGACCAACAGGACCCTGAGCTATCGGACTGGCTTG
AAGATCACCAGCCTTACCGAGGTTGTGTGTGGGTAGACTTGTGCAACCAGGGCAACTCTGGCCGGGCTGTCACC
TATTCCCGAAGCCGTTACCTCGAATGCATTTCTGTGGCTCATCAGACATGAGCTGTGAGAGGGGCGGCACCAG
AGCCTGCAGTGCCGCAGCCCTGAAGAACAGTGCCTGGATGTGGTGACCCACTGGATCCAGGAAGGTGAAGAAGGG
CGTCCAAAGGATGACCGCCACCTCCGTGGCTGTGGCTACCTTCCCGGCTGCCCGGGCTCCAATGGTTTCCACAAC
AACGACACCTTCCACTTCCCTGAAATGCTGCAACACCACCAAATGCAACGAGGGCCCAATCCTGGAGCTTGAAAAT
CTGCCGCAGAATGGCCGCCAGTGTTACAGCTGCAAGGGGAACAGCACCCATGGATGCTCCTCTGAAGAGACTTTC
CTCATTGACTGCCGAGGCCCCATGAATCAATGTCTGGTAGCCACCGGCACTCACGAACCGAAAAACCAAAGCTAT
ATGGTAAGAGGCTGTGCAACCGCCTCAATGTGCCAACATGCCACCTGGGTGACGCCTTCAGCATGAACCACATT
GATGTCTCCTGCTGTACTAAAAGTGGCTGTAAACCACCCAGACCTGGATGTCCAGTACCGCAGTGGGGCTGCTCCT
CAGCCTGGCCCTGCCCATCTCAGCCTCACCATCACCTGCTAATGACTGCCAGACTGTGGGGAGGCACTCTCCTC
TGGACCTTAAACCTGAAATCCCCCTCTCTGCCCTGGCTGGATCCGGGGGACCCCTTTGCCCTTCCCTCGGCTCCCA
GCCCTACAGACTTGCTGTGTGACCTCAGGCCAGTGTGCCGACCTCTCTGGGCCTCAGTTTTCCAGCTATGAAAA
CAGCTATCTCACAAAGTTGTGTGAAGCAGAAGAGAAAAAGCTGGAGGAAGGCCGTGGGCAATGGGAGAGCTCTTGT
TATTATTAATATTGTTGCCGCTGTTGTGTTGTTGTTATTAATTAATATTTCATATTATTTATTTTATACTTACATA
AAGATTTTGTACCAGTGG

1787/2825
FIGURE 1592

MGHPPLLPLLLLLHTCVPASWGLRCMQCKTNGDCRVEECALGQDLCRTTIVRLWEEGEELELVEKSCETHSEKTNR
TLSYRTGLKITSLTEVVCGLDLCNQGNNGRAVITYSRSRYLECISCGSSDMSCERGRHQSLQCRSPREEQCLDVVTH
WIQEGEEGRPKDDRHLRGCGYLPGCPGSNGFHNNDTFHFLKCCNTTKCNEGPILLENLPQNGRQCYSCCKGNSTH
GCSSEETFLIDCRGPMNQCLVATGTHEPKNQSYMVRGCATASMCQHAHLGDFAFSMNHIDVSCCTKSGCNHPDLVDV
QYRSGAAPQPGPAHLSTITLLMTARLWGGTLLWT

1788/2825
FIGURE 1593

GGATCTTAACACCACGCCTTGAGCAAGTCGCAAGAGCGGGAGGACACAGACCAGGAACCGAGAAGGGACAAGCAC
ATGGAAGCCAGCCCAGCATCCGGGCCCAGACACTTGATGGATCCACACATATTTCACTTCCAACCTTTAACAATGGC
ATTGGAAGGCATAAGACCTACCTGTGCTACGAAGTGGAGCGCTGGACAATGGCACCTCGGTCAAGATGGACCAG
CACAGGGGGCTTTCTACACAACCAGGCTAAGAATCTTCTCTGTGGCTTTTACGGCCGCCATGCGGAGCTGCGCTTC
TTGGACCTGGTTCCTTCTTTGCGAGTTGGACCCGGCCCCAGATCTACAGGGTCACTTGGTTTCATCTCCTGGAGCCCC
TGCTTCTCCTGGGGCTGIGCCGGGGAAGTGCCTGCGTTCCCTTCAGGAGAACACACACGTGAGACTGCGCATCTTC
GCTGCCCCGCATCTATGATTACGACCCCCCTATATAAGGAGGCGCTGCAAATGCTGCGGGATGCTGGGGCCCCAAGTC
TCCATCATGACCTACGATGAATTTAAGCACTGCTGGGACACCTTTGTGGACCACCAGGGATGTCCCTTCCAGCCC
TGGGATGGACTAGATGAGCACAGCCAAGCCCTGAGTGGGAGGCTGCGGGCCATTCTCCAGAATCAGGGAACT**TGA**

AGGATGGGCCTCAGTCTCTAAGGAAGGCAGAGACCTGGGTTGAGCAGCAGAATAAAAGATCTTCTTCCAAGAAAT
GCAAACAGACCGTTCACCACCATCTCCAGCTGCTCACAGACGCCAGCAAAGCAGTATGCTCCCGATCAAGTAGAT
TTTTAAAAAATCAGAGTGGGCCGGGCGCGGCTGCACGCCTGTAATCCCAGCACTTTGGAGGCCAAGGCGGGTGA
TCACGAGGTCAGGAGATCGAGACCATCCTGGCTAACACGGTGAAACCCTGTCTCTACTAAAAATACAAAAAATTA
GCCAGGGGTGGTGCGGGCGCCTGTAGTCCCAGCTACTCTGGAGGCTGAGGCAGGAGAGTACGTGAACCCGGGAGG
CAGAGCTTGCGGTGAGCCGAGATTGCGCTACTGCACTCCAGCCTGGGCGACAGXACCAGACTCCATCTCAAAAAA
AAAAAAAACCAGACTGAATTAATTTTAACTGAAAATTTCTCTTATGTTCCAAGGTACACAATAGGTAAGATTATG
CTCAATATTCTCAGAATAATTTTCAATGTATTAATGAAATGAAATGATAATTTGGCTTCATATCTAGACTAACAC
AAAATTAAGAATCTTCCATAATTGCTTTTGCTCAGTAACTGTGTCATGAATTGCAAGAGTTTCCACAAACACT

1789/2825
FIGURE 1594

MEASPASGPRHLMDPHIFTSNFNNGIGRHKTYLCYEVEERLDNGTSVKMDQHRGFLHNQAKNLLCGFYGRHAELRF
LDLVPSLQLDPAQIYRVTFISWSPCFSWGCAGEVRAFLQENTHVRLRIFAARIYDYDPLYKEALQMLRDAGAQV
SIMTYDEFKHCWDTFVDHQGCPFQPWDGLDEHSQALSGRLRAILQNQGN

FIGURE 1595

GGCACGAGGCACAGGCGATTGGTTTTAGTGGTAGGTGTGTGGGGATCTGTTCTGGTCATCTGGATGCTGGTCATC
GGTGTGCAGTATTGATCAGGACCTGCAAAACCAAAGCTTATGGGAGCTGGCACGTACAAAAAGAAAAAACCA
AGCCACAGCCTGGCAGCTCTGATCAGGAAAGTGAGGAACAGCAACAATTCCGGAACATTTTCAAGCAGATAGCAG
GAGATGAC**ATG**GAGATCTGTGCAGATGAGCTCAAGAAAGTCCTTAACACAGTCGTGAACAAACACAAGGACCTGA
AGACACACGGGTTACACTGGAGTCCTGCCGTAGCATGATTGCGCTCATGGATACAGATGGCTCTGGAAAGCTCA
ACCTGCAGGAGTTCCACCACCTCTGGAAACAAGATTAAGGCCCTGGCAGAAAATTTTCAAACACTATGACACAGACC
AGTCCGGCACCATCAACAGCTACGAGATGCGAAATGCAGTCAACGACGCAGGATTCCACCTCAACAACCAGCTCT
ATGACATCATTACCATGCGGTACGCAGACAAACACATGAACATCGACTTTGACAGTTTCACTGCTGCTTCGTTA
GGCTGGAGGGCATGTTTCAGAGCTTTTCATGCATTTGACAAGGATGGAGATGGTATCATCAAGCTCAACGTTCTGG
AGTGGCTGCAGCTCACCATGTATGCC**TGA**ACCAGGCTGGCCTCATCCAAAGCCATGCAGGATCACTCAGGATTTT
AGTTTCACCCTCTATTTTCAAAGCCATTTACCTCAAAGGACCCAGCAGCTACACCCCTACAGGCTTCCAGGCACC
TCATCAGTCATGTTTCTCTCCATTTTACCCCCCTACCCATCCTTGATCGGTTCATGCCTAGCCTGACCCTTTAGTA
AAGCAATGAGGTAGGAAGAACAACCCCTTGTCCTTTTGCCATGTGGAGGAAAGTGCCTGCCTCTGGTCCGAGCCG
CCTCGGTTCTGAAGCGAGTGCTCCTGCTTACCTTGCTCTAGGCTGTCTGCAGAAGCACCTGCCGGTGGCACTCAG
CACCTCCTTGCTAGAGCCCTCCATCACCTTCACGCTGTCCACCATGGGCCAGGAACCAAACCAGCACTGGGT
TCTACTGCTGTGGGGTAAACTAACTCAGTGGAATAGGGCTGGTTACTTTGGGCTGTCCAACCTATAAGTTTGGCT
GCATTTTGAAAAAAGCTGATCTAAATAAAGGCATGTGTATGGCTGGAAAAAAAAAAAAAAAAAAAAAAAAAAAA
AAAAAAAAAAAAA

1791/2825
FIGURE 1596

MEICADELKKVLNTVVNKHKDLKTHGFTLESCRSMIALMDTDGSGKLNLQEFHHLWNKIKAWQKIFKHYDTDQSG
TINSYEMRNAVNDAGFHLNNQLYDIITMRYADKHMNIDFDSFICCFVRLEGMFRAFHAFDKDGDI IKLNVLEWL
QLTMYA

1792/2825
FIGURE 1597

AACAGGCGTGACGCCAGTTCTAAACTTGAAACAAAAACAAACTTCAAAGTACACCAAAATAGAACCTCCTTAAAG
CATAAATCTCACGGAGGGTCTCGGCCGCCAGTGGAAGGAGCCACCGCCCCGCCCCGACC**ATGG**CCGAGGAGCTG
GTCTTAGAGAGGTGTGATCTGGAGCTGGAGACCAATGGCCGAGACCACCACACGGCCGACCTGTGCCGGGAGAAG
CTGGTGGTGCGACGGGGCCAGCCCTTCTGGCTGACCTTGCACTTTGAGGGCCGCAACTACCAGGCCAGTGTAGAC
AGTCTCACCTTCAGTGTCTGTGACCGGCCCCAGCCCCCTAGCCAGGAGGCCGGGACCAAGGCCCGTTTTCCACTAAGA
GATGCTGTGGAGGAGGGTGACTGGACAGCCACCGTGGTGGACCAGCAAGACTGCACCTCTCGCTGCAGCTCACC
ACCCCGGCCAACGCCCCCATCGGCCTGTATCGCCTCAGCCTGGAGGCCCTCCACTGGCTACCAGGGATCCAGCTTT
GTGCTGGGCCACTTCATTTTGCTCTTCAACGCCTGGTGGCCAGCGGATGCTGTGTACCTGGACTCGGAAGAGGAG
CGGCAGGAGTATGTCCTCACCAGCAGGGCTTTATCTACCAGGGCTCGGCCAAGTTCATCAAGAACATACCTTGG
AATTTTGGGCAGTTTCAAGATGGGATCCTAGACATCTGCCTGATCCTTCTAGATGTCAACCCCAAGTTCCTGAAG
AACGCCGGCCGTGACTGCTCCCGGCGCAGCAGCCCCGTCTACGTGGGCCGGGTGGGTAGTGGCATGGTCAACTGC
AACGATGACCAGGGTGTGCTGCTGGGACGCTGGGACAACAACCTACGGGGACGGCGTCAGCCCCATGTCCTGGATC
GGCAGCGTGGACATCCTGCGGCGCTGGAAGAACCACGGCTGCCAGCGCGTCAAGTATGGCCAGTGTGGGTCTTC
GCCGCCGTGGCCTGCACAGTGTGAGGTGCCCTAGGCATCCCTACCCGCGTCTGTGACCAACTACAACCTCGGCCCAT
GACCAGAACAGCAACCTTCTCATCGAGTACTTCCGCAATGAGTTTGGGGAGATCCAGGGGTGACAAGAGCGAGATG
ATCTGGAACCTTCCACTGCTGGGTGGAGTGTGGATGACCAGGCCGGACCTGCAGCCGGGGTACGAGGGCTGGCAG
GCCCTGGACCCAACGCCCCAGGAGAAGAGCGAAGGAACGTACTGCTGTGGCCAGTTCCAGTTCTGTGCCATCAAG
GAGGGCGACCTGAGCACCAAGTACGATGCGCCCTTTGTCTTTGCGGAGGTCAATGCCGACGTGGTAGACTGGATC
CAGCAGGACGATGGGTCTGTGCACAAATCCATCAACCGTTCCCTGATCGTTGGGCTGAAGATCAGCACTAAGAGC
GTGGGCCGAGACGAGCGGGAGGATATCACCCACACCTACAAATACCCAGAGGGGTCTCAGAGGAGAGGGAGGCC
TTCACAAGGGCGAACCACCTGAACAAACTGGCCGAGAAGGAGGAGACAGGGATGGCCATGCGGATCCGTGTGGGC
CAGAGCATGAACATGGGCAGTGACTTTGACGTCTTTGCCACATCACCAACAACACCGCTGAGGAGTACGTCTGC
CGCCTCCTGCTCTGTGCCCGCACCGTACGCTACAATGGGATCTTGGGGCCCGAGTGTGGCACCAAGTACCTGCTC
AACCTAACCCCTGGAGCCTTTCTCTGAGAAGAGCGTTCCCTCTTTGCATCCTCTATGAGAAATACCGTGACTGCCTT
ACGGAGTCCAACCTCATCAAGGTGCGGGCCCTCCTCGTGGAGCCAGTTATCAACAGCTACCTGCTGGCTGAGAGG
GACCTCTACCTGGAGAATCCAGAAATCAAGATCCGGATCCTTGGGGAGCCCAAGCAGAAACGCAAGCTGGTGGCT
GAGGTGTCCCTGCAGAACCCGCTCCCTGTGGCCCTGGAAGGCTGCACCTTCACTGTGGAGGGGGCCGGCCTGACT
GAGGAGCAGAAGACGGTGGAGATCCAGACCCCGTGGAGGCAGGGGAGGAAGTTAAGGTGAGAATGGACCTCGTG
CCGCTCCACATGGGCCTCCACAAGCTGGTGGTGAACCTTCGAGAGCGACAAGCTGAAGGCTGTGAAGGGCTTCCGG
AATGTCATCATTGGCCCCGCC**TAAG**GGACCCCTGCTCCCAGCCTGCTGAGAGCCCCACCTTGATCCCAATCCTT
ATCCCAAGCTAGTGAGCAAAATATGCCCCCTATTGGGGCCCCAGACCCAGGGCAGGGTGGGCAGCCTATGGGGC
TCTCGGAAATGGAATGTGCCCCCTGGCCCATCTCAGCCTCCTGAGCCTGTGGGTCCCCACTCACCCCTTTGCTGT
GAGGAATGCTCTGTGCCAGAAACAGTGGGAGCCCTGACCTGTGCTGACTGGGGCTGGGGTGAAGAGGAAAGACC
TACATTCCCTCTCCTGCCAGATGCCCTTTGGAAAGCCATTGACCACCCACCATATTGTTTGATCTACTTCATAG
CTCCTTGGAGCAGGCAAAAAAGGGACAGCATGCCCTTGGCTGGATCAGGAATCCAGCTCCCTAGACTGCATCCCG
TACCTCTTCCCATGACTGCACCCAGCTCCAGGGGCCCTTGGGACACCCAGAGCTGGGTGGGGACAGTGATAGGCC
CAAGGTCCCCCTCCACATCCAGCAGCCCAAGCTTAATAGCCCTCCCCCTCAACCTCACCATTGTGAAGCACCTAC
TATGTGCTGGGTGCCTCCCACTTGTCTGGGGCTCACGGGGCCTCCAACCCATTAAATCACCATGGGAAACTGTT
GTGGGCGCTGCTTCCAGGATAAGGAGACTGAGGCTTAGAGAGAGGAGGCAGCCCCCTCCACACCAGTGGCCTCGT
GGTTATAAGCAAGGCTGGGTAATGTGAAGGCCCAAGAGCAGAGTCTGGGCCTCTGACTCTGAGTCCACTGCTCCA
TTTATAACCCAGCCTGACCTGAGACTGTGCGCAGAGGCTGTCTGGGGCCTTTATCAAAAAAGACTCAGCCAAGA
CAAGGAGGTAGAGAGGGGACTGGGGGACTGGGAGTCAGAGCCCTGGCTGGGTTCAAGGTCCACGCTCTGGCCAGCG
ACTGCCTTCTCCTCTCTGGGCCTTTGTTTCTTGTGGTTCAGAGGAGTGATTGAACCTGCTCATCTCCAAGGATC
CTCTCCACTCCATGTTTGCAATACACAATTCC

1793/2825
FIGURE 1598

MAEELVLERCDLELETNGRDHHTADLCREKLVVRRGQPFWLTLHFEGRNYQASVDSLTFSSVVTGPAPSQEAGTKA
RFPLRDAVEEGDWTATVVDQQDCTLSTLQLTTPANAPIGLYRLSLEASTGYQGSSFVLGHFILLFNAWCPADAVYL
DSEERQEYVLTQQGFIYQGSAKFIKNIPWNFGQFQDGLDILCLILLDVNPKFLKNAGRDCSRRSSPVYVGRVGS
GMVNCNDDQGVLLGRWDNNYGDGVSPMSWIGSVDILRRWKNHGCQRVKYQCWVFAAVACTVLRCLGIPTRVVTN
YNSAHDQNSNLLIEYFRNEFGEIQGDKSEMIWNFHCWVESWMTRPDLQPGYEGWQALDPTPQEKSEGTYCCGPVP
VRAIKEGDLSTKYDAPFVFAEVNADVVDWIQQDDGSVHKSINRSLIVGLKISTKSVGRDEREDITHYKYPEGSS
EEREAFTRANHLNKLAEKEETGMAMRIRVGQSMNMGSDFDVFAHITNNTAEYVCRLLLCARTVSYNGILGPECG
TKYLLNLTLEPFSEKSVPLCILYEKYRDCLTESNLIKVRALLVEPVINSYLLAERDLYLENPEIKIRILGEPKQK
RKLVAEVSLQNPLPVALEGCTFTVEGAGLTEEQKTVEIPDPVEAGEEVKVRMDLVPLHMGLHKLNVNFESDKLKA
VKGFRNVIIGPA

1794/2825
FIGURE 1599

TGCGGCCGCACCTGCAGGCGCAGAGTAGGTATGGAAGATCCCTCGAGATCCATTGTGCTCTAAAGCCGCGGGGG
TCCGTGTCTGTCTCGGTTGGCCGGACCCGGGCCCCGAGCCCCGAGCAGTAGCCGGCGCCATGTCTGGTGGTGGGCAT
AGACCTGGGCTTCCAGAGCTGCTACGTCGCTGTGGCCCGCGCCGGCGGCATCGAGACTATCGCTAATGAGTATAG
CGACCGCTGCACGCCGGCTTGCAATTTCTTTTGGTCCTAAGAATCGTTCAATTGGAGCAGCAGCTAAAAGCCAGGT
AATTTCTAATGCAAAGAACACAGTCCAAGGATTTAAAAGATTCCATGGCCGAGCATTCTCTGATCCATTTGTGGA
GGCAGAAAAATCTAACCTTGCATATGATATTGTGTCAGTGGCCTACAGGATTAACAGGTATAAAGGTGACATATAT
GGAGGAAGAGCGAAATTTTACCACTGAGCAAGTGACTGCCATGCTTTTGTCCAACTGAAGGAGACAGCCGAAAG
TGTTCTTAAGAAGCCTGTAGTTGACTGTGTTGTTTCGGTTCCCTTGTTTCTATACTGATGCAGAAAGACGATCAGT
GATGGATGCAACACAGATTGCTGGTCTTAATTGCTTGCGATTAATGAATGAAACCACTGCAGTTGCTCTTGATA
TGGAATCTATAAGCAGGATCTTCCTCGCTTAGAAGAGAAACCAAGAAATGTAGTTTTTGTAGACATGGGCCACTC
TGCTTATCAAGTTTCTGTATGTGCATTTAATAGAGGAAAACCTGAAAGTTCTGGCCACTGCATTTGACACGACATT
GGGAGGTAGAAAATTTGATGAAGTGTTAGTAAATCACTTCTGTGAAGAATTTGGGAAGAAATACAAGCTAGACAT
TAAGTCCAAAATCCGTGCATTATTACGACTCTCTCAGGAGTGTGAGAACTCAAGAAATTGATGAGTGCAAATGC
TTCAGATCTCCCTTTGAGCATTGAATGTTTTATGAATGATGTTGATGTATCTGGAACCTATGAATAGAGGCAAATT
TCTGGAGATGTGCAATGATCTCTTAGCTAGAGTGGAGCCACCACTTCGTAGTGTTTTGGAACAAACCAAGTTAAA
GAAAGAAGATATTTATGCAGTGGAGATAGTTGGTGGTGCTACACGAATCCCTGCGGTAAAAGAGAAGATCAGCAA
ATTTTTCGGTAAAGAACTTAGTACAACATTAAATGCTGATGAAGCTGTCACTCGAGGCTGTGCATTGCAGTGTGC
CATCTTATCGCCTGCTTTCAAAGTCAGAGAATTTTCTATCACTGATGTAGTACCATATCCAATATCTCTGAGATG
GAATTCTCCAGCTGAAGAAGGGTCAAGTGAAGTCTTTTCCAAAATCATGCTGCTCCTTTCTCTAAAGT
TCTTACATTTTATAGAAAGGAACCTTTCACTCTTGAGGCCTACTACAGCTCTCCTCAGGATTTGCCCTATCCAGA
TCCTGCTATAGCTCAGTTTTCAGTTCAGAAAGTCACTCCTCAGTCTGATGGCTCCAGTTCAAAAGTGAAAGTCAA
AGTTTCGAGTAAATGTCCATGGCATTTTCAGTGTGTCCAGTGCATCTTTAGTGGAGGTTTACAAGTCTGAGGAAAA
TGAGGAGCCAATGGAAACAGATCAGAATGCAAAGGAGGAAGAGAAGATGCAAGTGGACCAGGAGGAACCACATGT
TGAAGAGCAACAGCAGCAGACACCAGCAGAAAATAAGGCAGAGTCTGAAGAAATGGAGACCTCTCAAGCTGGATC
CAAGGATAAAAAAGATGGACCAACCACCCCAATGCCAAGAAGGCAAAAGTGAAGACCAGTACTGTGGACCTGCCAA
TCGAGAATCAGCTATATGGCAGATAGACAGAGAGATGCTCAACTTGTACATTGAAAATGAGGGTAAGATGATCAT
GCAGGATAAACTGGAGAAGGAGCGGAATGATGCTAAGAACGCAGTGGAGG

1795/2825
FIGURE 1600

MSVVGIDLGFQSCYVAVARAGGIETIANEYSDRCTPACISFGPKNRSIGAAAKSQVISNAKNTVQGFKRFGHGRAF
SDPFVEAEKSNLAYDIVQWPTGLTGIKVTYMEEEERNFTTEQVTAMLLSKLKETAESVLKKPVVDCVVSVPFCFYTD
AERRSVMDATQIAGLNCLRLMNETTAVALAYGIYKQDLPRLEEKPRNVFVDMGHSAYQVSVCAFNRGKLKVLAT
AFDTTLGGRKFDEVLVNHFCCEFGKKYKLDIKSKIRALLRLSQECEKLKKLMSANASDLPLSIECFMNDVDVSGT
MNRGKFLEMCNDLLARVEPPLRSVLEQTKLKKEDIYAVEIVGGATRIPAVKEKISKFFGKELSTTLNADEAVTRG
CALQCAILSPAFAKVRFSITDVVPYPISLRWNSPAEEGSSDCEVFSKNHAAPFSKVLTFYRKEPFTLEAYYSSPQ
DLPYDPPIAQFSVQKVTPQSDGSSSKVKVKVRVNVHGIFSVSSASLVEVHKSEENEEPMTDQNAKEEEKMQVD
QEEPHVEEQQQTPAENKAEESEEMETSQAGSKDKKMDQPPQCQEGKSEDQYCGPANRESAIWQIDREMLNLYIEN
EGKMIMQDKLEKERNDAKNAVEEYVYEMRDKLSGEYEKFSVEDDRNSFTLKLEDTENWLYEDGEDQPKQVYVDKL
AELKNLGQPIKIRFQESEERPNYLKN

1796/2825
FIGURE 1601

GGCACGAGGCTTCCCCGGTGCAGACACCCGGCGAAGCCCACCCGGTTTTCCAGCGGCATTTCCGATGACAGCTT
CGGGGCTACGTGTCCTGTGCTGTGCGGAGACGCACAGGAAGCAAAGTTTGTGAGAAGCCTTGGGGGCGACTTTGCC
TTGGGCACCCGCATTTGTGCGTCTGCGAGGTGCCTCGGTGTGCGCGGAGCTAGTTTTCCAGTTTTCCCGGGCCCCCT
CCCTTCTCCGAGCCCCCTCTAGCGATTTGTTTAGGAAAAGTGATGACATGAACTAGTAGTGGAATCGCAGCGCC
GCTCCCCGCCCTGGGGAGGGAGGGGAGCCCCGGAGAGCCTGCCGGTGGGAGCTGGAAGCAGGCTCCCGGCTGAGC
GCCCCAGCCGAAAGGCAGGGTCTGGGTGCGGGAAGAGGGCTCGGAGCTGCCTTCCTGCTGCCTTGGGGCCGCC
AGATGAGGGAACAGCCCCGATTTGCCTGGTTCTGATTCTCCAGGCTGTGCTGGTTGTGGAATGCAAACGCCAGCAC
ATAATGGAAACAGGACCTGAAGACCCTTCCAGCATGCCAGAGGAAAGTTCCCCCAGGCGGACCCCGCAGAGCATT
CCCTACCAGGACCTCCCTCACCTGGTCAATGCAGACGGACAGTACCTCTTCTGCAGGTACTGGAAACCCACAGGC
ACACCCAAGGCCCTCATCTTTGTGTCCCATGGAGCCGGAGAGCACAGTGGCCGCTATGAAGAGCTGGCTCGGATG
CTGATGGGGCTGGACCTGCTGGTGTTCGCCCACGACCATGTTGGCCACGGACAGAGCGAAGGGGAGAGGATGGTA
GTGTCTGACTTCCACGTTTTTCGTCAGGGATGTGTTGCAGCATGTGGATTCCATGCAGAAAGACTACCTGGGCTT
CCTGTCTTCCTTCTGGGCCACTCCATGGGAGGCGCCATCGCCATCCTCACGGCCGCAGAGAGGCCGGGCCACTTC
GCCGGCATGGTACTCATTTCGCCTCTGGTTCTTGCCAATCCTGAATCTGCAACAACTTTCAAGGTCCTTGCTGCG
AAAGTGCTCAACCTTGTGCTGCCAAACTTGTCCCTCGGGCCCATCGACTCCAGCGTGCTCTCTCGGAATAAGACA
GAGGTCGACATTTATAACTCAGACCCCCCTGATCTGCCGGGCAGGGCTGAAGGTGTGCTTCGGCATCCAACCTGCTG
AATGCCGTCTCACGGGTGGAGCGCGCCCTCCCCAAGCTGACTGTGCCCTTCCTGCTGCTCCAGGGCTCTGCCGAT
CGCCTATGTGACAGCAAAGGGGCCTACCTGCTCATGGAGTTAGCCAAGAGCCAGGACAAGACTCTCAAGATTTAT
GAAGGTGCCCTACCATGTTCTCCACAAGGAGCTTCCTGAAGTCACCAACTCCGTCTTCCATGAAATAAACATGTGG
GTCTCTCAAAGGACAGCCACGGCAGGAAGTGCCTCCCCACCCTGAATGCATTGGCCGGTGCCCGGCTCATGGTCT
GGGGGATGCAGGCAGGGGAAGGGCAGAGATGGCTTCTCAGATATGGCTTGCAAAAAAAAAAAAAAAAAAAAAA
AAAAAA

1797/2825
FIGURE 1602

METGPEDPSSMPEESSPRRT PQSIPYQDLPHLVNADGQYLCRYWKPTGTPKALIFVSHGAGEHSGRYEELARML
MGLDLLVFAHDHVGHGQSEGERMVVSDFHVFVRDVLQHVD SMQKDYPGLPVFLLGHSMGGAIAILTAAERP GHFA
GMVLISPLVLANPESATTFKVLA AKVLNLVLPNLSLGPIDSSVLSRNKTEVDIYNSDPLICRAGLKVCFGIQLLN
AVSRVERALPKLTVPFLLLQGSADRLCDSKGAYLLMELAKSQDKTLKIYEGAYHVLHKELPEVTNSVFHEINM WV
SQRTATAGTASPP

1798/2825
FIGURE 1603

GGCACGAGGGACGACTCCACGCTCGCTTGCCCTGATTCTCTCCGCCCTGCACTTTTGCCAGCTGAAGGTCCAGGG
AGAAGAGCAACCTGGCCACAGCCTGCAGGTGGCCAGCAGCAGGCCGAGGAGCTGCCGCAGGAGCGGGAGAAGC
TGCAGGTTGCCCAGGAGGAGCTGCAGCGCCAGCGGGACCGGCTGGAGGAAGAGCAGGAAGAGGCGGTGCAGAAATG
GCGCACGGGTTCCGCCGGGAGCTTGAGCGCAGCCATAGACAAGTAGAGCAGCTGGAAGGGAAGCGCTCAGTCTTG
CCAAGGAGCTGGTGGAGGTGAGGGAGGCGCTGAGCCGCGCCACGCTGCAACGGGACATGCTGCAGGCCGAGAAGA
CCGAGGTGGCCGAGGCGCTGACCAAGGCTGAGGCTGGCCGCATGGAGCTCGAGCTCTCCGTGACCAAGTTGAGGG
CAGAGGAGGCCTCCCTGCAGGACTCCCTGTCCAAGCTGAGCGCCCTCAATGAGAGCCTTGCTCAGGACAAGTTGG
ATCTGAACTGCCTTGTACCCAGCTGGAGGAAGAAAAGGCCACGCTGCAGGGCCGGCAGCGGCAGGCGGAGCAGG
AGGCCACAGTGGCGCCGGCAGAGCAGGAGTGGCTGGAGGAGCTGTGGTTGGAGCAGGAGGTGGCACGGCAGGGCC
TGGAGGGCTCCCTATGAGTGGCGGAGCAGGCCAGGAGGCGCTGGAGCAACAGCTCCCCACACTGCACCATGAGC
TCAGTTGGCTGCAGGAGCAGCTAGCACAGGGGATCATGTTTCGGACCCCCAGGCCAGCCCAGTCTGCTCCTTGCC
ACTTTCACGGCCCTGGCGTGTCCCCGTATAGTCCTTATCAGTCCCTTGTATTTACCTGGTCACCCCTCCATCTCT
GAGGGTATGGGGGCCAGATGGCTCTTGCTGCCCTGATGTTTTGGGGGTCTGCCTGGGCCCCCTCCTGGTGTGTCA
CACGCGTCCAGTCCCTGGCCCCCTAGGAGGCAGCATGGCGGGAGCTGGAGGCCGAGCGGGCCCCAGCTGCAGAGTCA
GCTGCAGCGTGAGCAGGAGGAGCTGCTGGCCCCGGCGGAAGGCTGAGAAGGAACAGCTGAGTGAGGAGATTGCTGC
CCTGCAGCAGGAGCATGACGAGGGCCTCCTCCTGGCCGAGAGCGAGAAGCAGCAGGCCTTGTCTCTGAAGGAGTC
TGAGAAGATGGCGCTGTGAGAGAAGTTGATGGGTACACGGCACAGCCTGGCCACCATCTCCCTGGAGATGGAGCG
GCAGAAACCAGATGCCCAGAGCCGGCAGGAGCAGGACCGGGTAGGCCTGCCGTGCTAGGGAGGCTTGCGGAGCAG
GAGCGCCCTCTTTCCACCGAGCTATCCCGCGGTTTCCAGCATCCCATCTGGCGGACTCCTCTTCTCTCTCTTCT
CCTACTCTGGGTCTTCTATCCTGGTGTTCCTTGAATGCCTATCTTCCTTTTGTGCCTCGGAACCTCTCACGCCTG
CCACAAGTTACTCTTTTCCCTTGGTAGTTCTGAACTTTAAATAAGGTAATGCCTGTAAGAATGCCATAAATGCTCA
ATAATTGTCATCTGTTATTATTTTCATCAGTAACATCATCTGAATCATCAGTATTGTCTGCTTTTAAACAGCTGCA
TTTTTTCATTGTCCAAATATAGTCACATACATTTGACCATTTTATAATTATTGAATAATAAATTTCGTTCTGCTATT
TTACAATGAAAAATAATGCTGCAGAGAGCATTTTTTGACATGTATCGTGGCAGATGTAGGCCAGAGGCTCTTCTT
TATCCATCCTATGGCCAACCTATGAATGTATACACGTTTAAATGAGATTTTGCCAGCAATCAAAGCCTTCAGGGAA
AATGTCCCTAGCTCTTTACTACATCAGATCAAGGACTCTGGATAATTGGCATAACATCCTGGAATAGCTGAAACA
GAGATATTATTCTCTGCTGTCTCTGTTGTCTTTGTCTTTTACGTCTTAATAAAAGTGCTGGTGACAAGAGTGT
AAAAAAAAAAAAAAAAAAAA

1799/2825
FIGURE 1604

MLQAEKTEVAEALTKAEAGRMELELSVTKLRAEEASLQDSLSKLSALNESLAQDKLDLNCLVTQLEEEKATLQGR
QRQAEQEATVAPAEQEWLEELWLEQEVARQGLEGSL

1800/2825
FIGURE 1605

GGCACGAGGCCAAGAGCTACGCGGCGGCGGCGGAGCGCAGGCCTCGTGCCGTTACGGCCATCACGGCGGCCGCAG
TGGCGTCCTGGAGCCCTCCTCAGTGCTGAAGCTGCTGAAAGCATGGCAGAAGAAGTGGTGGTAGTAGCCAAATTTG
ATTATGTGGCCCAACAAGAACAAGAGTTGGACATCAAGAAGAATGAGAGATTATGGCTTCTGGATGATTCTAAGT
CCTGGTGGCGAGTTCGAAATTCCATGAATAAAACAGGTTTTGTGCCTTCTAACTATGTGGAAAGGAAAAACAGTG
CTCGGAAAGCATCTATTGTGAAAAACCTAAAGGATACCTTAGGCATTGGAAAAGTGAAAAGAAAAACCTAGTGTC
CAGATTCTGCATCTCCTGCTGATGATAGTTTTGTTGACCCAGGGGAACGTCTCTATGACCTCAACATGCCCCGCTT
ATGTGAAATTTAACTACATGGCTGAGAGAGAGGATGAATTATCATTGATAAAGGGGACAAAGGTGATCGTCATGG
AGAAATGCAGTGATGGGTGGTGGCGTGGTAGCTACAATGGACAAGTTGGATGGTTCCCTTCAAACCTATGTAACCTG
AAGAAGGTGACAGTCCTTTGGGTGACCATGTGGGTTCTCTGTGAGAGAAATTAGCAGCAGTCGTCAATAACCTAA
ATACTGGGCAAGTGTTGCATGTGGTACAGGCTCTTTACCCATTGAGCTCATCTAATGATGAAGAAGTTAATTTTCG
AGAAAGGAGATGTAATGGATGTTATTGAAAAACCTGAAAATGACCCAGAGTGGTGGAAATGCAGGAAGATCAATG
GTATGGTTGGTCTAGTACCAAAAACTATGTTACCGTTATGCAGAATAATCCATTAACCTCAGGTTTGGAACCAT
CACCTCCACAGTGTGATTACATTAGGCCTTCACTCACTGGAAAAGTTTGCTGGCAATCCTTGGTATTATGGCAAAG
TCACCAGGCATCAAGCAGAAATGGCATTAAATGAAAGAGGACATGAAGGGGATTTCTTCATTGATAGTGAAT
CTTCGCCAAATGATTTCTCAGTATCACTAAAAGCACAAAGGGAAAAACAAGCATTTTAAAGTCCAACATAAAGAGA
CTGTCTACTGCATTGGGCAGCGTAAATTCAGCACCATGGAAGAAGTTGTAGAACATTACAAAAAGGCACCAATTT
TTACAAGTGAACAAGGAGAAAAATTATATCTTGTCAAGCATTTATCATGATACTGCTGACCAGAAGTGAAGTCTG
TGTAGCTGTAATTTGTCATGTAATTGAAGACTGAGAAAAATGTTGGGTCCAGTCGTGCTTGATTGGAAATTGTTGT
TTCTAAATCTATATGAGAATTGACAATAAGTATTTTTATTATAACTCAGCCCATACATATATACTATGTATGCAG
TGCATCTGCATAGAACAGTTCCTTATCCTTGGCCTTCTGTTTTATTGTTTTTTTTCTTTGCTGTTTTCCCTTTGCT
TCTAATATTACAGTTTTGTATTTTGTAACAAAAATCAAATAATGCATATCAGAATCTTTATATGGAAGAAATCC
TTTATTGCCTTTCTTTGTTTCCTTGTAAGGCACCTGTTCTGTTATGGTTTTTTCATTATATAAAATTATTATA
TCTATATATGACATATGCTAAAATTTCTTGAGAGTGTTAATCTTTTCTGTGACTAAATAGCAATAATAAGTGG
AAATTAGAAATTATTTCCAGGTATTATATTTGTCACAGGCCATTGTAAATACCAAGTATATTGTGTCTGCCATAA
TTTTTAAAAATACATTCATTGTCTTCAGTCATACAGCAAGACACATGAGACATAGATTAGAAAACATGTTGTACA
ATTTTAATTTACAACCTGTTGGAAATAAAAAATCACTTAATTTTTTTTCCAAAAAAAAAAAAAAAAAAAAAAAAA

1801/2825
FIGURE 1606

MAEEVVVAKFDYVAQQEQELDIKKNERLWLLDDSKSWWRVRNSMNKTGFVPSNYVERKNSARKASIVKNLKDTL
GIGKVKRKPSVPDSASPADD SFVDPGERLYDLNMPAYVKFNYMAEREDELSLIKGTKVIVMEKCSDGWWRGSYNG
QVGWFPSNYVTEEGDSPLGDHVGSLSEKLA AVVN NLNTGQVLHV VQALYPFSSSNDEELNFEKGDVMDVIEKPEN
DPEWWKCRKINGMVGLVPKNYVTVMQNNPLTSGLEPSPPQCDYIRPSLTGKFAGNPWYYGKVTRHQAEMALNERG
HEGDFLIRDSESSPNDFSVSLKAQGKKNHFKVQLKETVYCIGQRKFSTMEELVEHYKKAPIFTSEQGEKLYLVKH
LS

1802/2825
FIGURE 1607

ACCCGGAGCGGGAAG**ATG**GCGGCGGCGCAGGAGGCGGACGGGGCCCGCAGCGCCGTGGTGGCGGCCGGGGGAGGC
AGCTCCGGTCAGGTGACCAGCAATGGCAGCATCGGGAGGGACCCGCCAGCGGAGACCCAGCCTCAGAACCCACCG
GCCCAGCCGGCACCCAATGCCTGGCAGGTCATCAAAAGGTGTGCTGTTTAGGATCTTCATCATCTGGGCCATCAGC
AGTTGGTTCCGCCGAGGGCCGGCCCCCTCAGGACCAGGCGGGCCCCGGAGGAGCCCCACGCGTCCGCCAGCCGCAAC
CTGTTCCCCAAAGACACTTTAATGAACCTGCATGTGTACATCTCAGAGCACGAGCACTTTACAGACTTCAACGCC
ACGTCGGCACTCTTCTGGGAACAGCACGATCTTGTGTATGGCGACTGGACTAGCGGCGAGAACTCAGACGGCTGC
TACGAGCACTTTGCTGAGCTCGATATCCACAGAGCGTCCAGCAGAACGGCTCCATCTACATCCACGTTTACTTC
ACCAAGAGTGGCTTCCACCCAGACCCCCGGCAGAAGGCCCTGTACCGCCGGCTTGCCACAGTCCACATGTCCCGG
ATGATCAACAAATACAAGCGCAGACGATTTAGAAAAACCAAGAACCTGCTGACAGGAGAGACAGAAGCGGACCCA
GAAATGATCAAGAGGGCTGAGGACTATGGGCCTGTGGAGGTGATCTCCATTGGCACCCCAACATCACCATCAAC
ATCGTGGACGACCACAGCCGTGGGTGAAGGGCAGTGTGCCCCCTCCCCTGGATCAATATGTGAAGTTCGACGCC
GTGAGCGGTGACTACTATCCCATCATCTACTTCAATGACTACTGGAACCTGCAGAAGGACTACTACCCCATCAAC
GAGAGCCTGGCCAGCCTGCCGCTCCGCGTCTCCTTCTGCCCACTCTCGCTTTGGCGCTGGCAGCTCTATGCTGCC
CAGAGCACCAAGTCGCCCTGGAACCTTCTGGGCGATGAGTTGTACGAGCAGTCAGATGAGGAGCAGGACTCGGTG
AAGGTGGCCCTGCTGGAGACCAACCCCTACCTGCTGGCGCTCACCATCATCGTGTCTATCGTTACAGTGTCTTC
GAGTTCCTGGCCTTCAAGAATGATATCCAGTTCTGGAACAGCCGGCAGTCCCTGGAGGGCCTGTCCGTGCGCTCC
GTCTTCTTCGGCGTTTTTCCAGTCATTCTGTTGCTCCTCTACATCCTGGACAACGAGACCAACTTCGTGGTCCAG
GTCAGCGTCTTCATTGGGGTCTCATCGACCTCTGGAAGATCACCAAGGTCATGGACGTCCGGCTGGACCGAGAG
CACAGGGTGGCAGGAATCTTCCCCCGCCTATCCTTCAAGGACAAGTCCACGTATATCGAGTCTCGACCAAGTG
TATGATGATATGGCATTCCGGTACCTGTCTGGATCCTCTTCCCGCTCCTGGGCTGCTATGCCGTCTACAGTCTT
CTGTACCTGGAGCACAAAGGGCTGGTACTCCTGGGTGCTCAGCATGCTCTACGGCTTCTCTGCTGACCTTCGGCTTC
ATCACCATGACGCCCCAGCTCTTCATCAACTACAAGCTCAAGTCTGTGGCCACCTTCCCTGGCGCATGCTCACC
TACAAGGCCCTCAACACATTTCATCGACGACCTGTTTCGCCTTTGTCTATCAAGATGCCCGTTATGTACCGGATCGGC
TGCTTGGGGACGATGTGGTTTTTCTTCATCTACCTCTACCAACGGTGGATCTACCGCGTCGACCCCCACCCGAGTC
AACGAGTTTGGCATGAGTGGAGAAGACCCACAGCTGCCGCCCCCGTGGCCGAGGTTCCACAGCAGCAGGGGCC
CTCACGCCACACCTGCACCCACCACGACCACCGCCACCAGGGAGGAGGCCTCCACGTCCCTGCCCACCAAGCCC
ACCCAGGGGGCCAGCTCTGCCAGCGAGCCCCAGGAAGCCCCCTCAAAGCCAGCAGAGGACAAGAAAAAGGAT**TAG**

TCGAGACTGGTCTCTACCTGCTCCGGCTCCTGGCGACCACTACCCCTGCGTCCCGGCCCCCTCGCCTCCCCCTCCC
TGTCGCCCTTTCCCTGGACAGATCAGGCCGGGGCGGTGGGAGGCCCGCCTCAGGTCAGGGCCAGCGTGTGACGT
AGGGGCCGGGGCAGGCCAGGGTTTGTGGTGGAGGCGCTGTCTGTCCCTCTGTCCCTCTGTGTTTCCAGCCATCT
CGCCCTGCCAGCCAGCACCCTGGGAATCATGGTGAAGCTGATGCAGCGTTGCCGAGGGGGTGGGTGGGCGGG
GGTGGGGCCGGGGCCCCCTACGGGATGCCCACGGCCGTTTCATCATCTTGTCCCTCGTCCCCCTACCACACTCCCC
CTCCTAGACCGCGCCCTTTAACACAGTCTGGATTTAATAAATTCATATGGGTGTTTAACTTAACTCAAAAAA
AAAAAAAAA

1803/2825
FIGURE 1608

MAAAQEADGARS AVVAAGGGSSGQVTSNGSIGRDPPAETQPQNPPAQ PAPNAWQVIKGVLFRI FIIWAISSWFRR
GPAPQDQAGPGGAPRVASRNLF PKDTLMNLHVYI SEHEHFTDFNATSALFWEQHDLVYGDWTSGENSDGCYEHFA
ELDIPQSVQQNGSIYIHVYFTKSGFHPDPRQKALYRRLATVHMSRMINKYKRRRFQKTKNLLTGETEADPEMIKR
AEDYGPVEVISHWHPNITINIVDDHTPWVKGSVPPPLDQYVKF DAVSGDYYP I IYFNDYWNLQKDYY PINESLAS
LPLRVSF CPLSLWRWQLYAAQSTKSPWNFLGDELYEQSDEEQDSVKVALLETNPYLLALTIIVSIVHSVFEFLAF
KNDIQFWNSRQSLEGLSVRSVFFGVFQSFVLLYILDNETNFVVQVSFIGVLIDLWKITKVM DVRLDREHRVAG
IFPRLSFKDKSTYIESSTKVYDDMAFRYLSWILFP LLGCYAVYSLLYLEHKGWYSWVLSMLYGFLLTFGFITMTP
QLFINYKLKSV AHL PWRMLTYKALNTFIDDLFAFVIKMPV MYRIGCLRDDVVFFIYLYQRWIYRVDPTRVNEFGM
SGEDPTAAAPVAEVPTAAGALTPTPAPTTTTATREEASTSLPTKPTQGASSASEPQEAPPKPAEDKKKD

1804/2825
FIGURE 1609A

CTTCCTCCCTCCCGCTCGCTTCTTCTCACGCCGGGAGCAGGCTCGCGCCTCGCACCGCTGCCCCGCGAGCAGCTC
CTCTTCTCCCGAGGCGCGCGGGGCGCCCCGCGAGCCCCGCGGCTGAGACCCCGCAGCCTGGAGGAGGGCTGTCC
GGGGCTTTGGGTTGCACGTTTTTCAAAAAATACCTAATGGTGAAAATGAGACA**ATG**ATTCTGTATTGACATCAAA
AAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAACAAATG
TGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATGAGTTTGATATTAGTGAAGATGAGCCACTGTGGAAGAA
GTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTTAAATGCATCA
GTTTGATGATGCCGTGAGTATCACTGTGGCAATACTTATCGTTGTTACAGTTGCCTTTGTTCAGGAATATCGTTC
AGAAAAATCTCTTGAAGAATTGAGTAAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATTGGAGCA
TACACTTGCCCCGAGACTTGGTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTTCTGTGACTTACG
CTTGTTTGGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCTTGTCTAAGGTGAC
AGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGATCGAGAAGTAACATTGCCTTTATGGGAACACTGGTCAG
ATGTGGCAAAGCAAAGGGTGTGTGTCATTGGAACAGGAGAAAAATTCTGAATTTGGGGAGGTTTTTAAATGATGCA
AGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTCTCTTTACTCCTT
TGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTATTAGTGT
AAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTGCAGTGACGCTAGCTCTTGGTGTATGAG
AATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCTATTGTTGAACTCTGGGCTGCTGTAATGTGATTGTTC
AGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCATGCTGA
GGTTACTGGAGTTGGCTATAATCAATTTGGGGAAGTGATTGTTGATGGTGTGTTGTTTCATGGATTCTATAACCC
AGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAACAATACTCTAATGGGGAA
GCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACATCAGAAA
AGCTGAATACCCTTTTAGCTCTGAGCAAAAGTGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGACAGACC
AGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAAGTACTGTACTACATACCAGAGCAAAAGGGCAGAC
CTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACTCAGAGT
TCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCCACCTAG
AACTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCTCAGGAGTATCAATAAAAATGATTACTGGAGATTACACA
GGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCAGTCAGTCTCAGGAGAAGAAAT
AGATGCAATGGATGTTTACAGCAGCTTTTCAAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCCAAGGCA
CAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTTCAAGTTGTAGCCATGACAGGAGATGGAGTAAATGATGC
AGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGCAGCAGA
CATGATCCTAGTGGATGATGATTTTTCAAAACCATAATGTCTGCAATCGAAGAGGGTAAAGGGATTATATAACAT
TAAAAATTTTCGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATTAATGAA
CTTTCCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCAGAGCCT
TGGAGTAGAACCAGTGGATAAAGATGTCTTTCGTAACCTCCTCGCAACTGGAAAGACAGCATTTTGACTAAAAA
CTTGATACTTAAATACTTGTTCATCAATAATCATTTGTTTGTGGGACTTTGTTTGTCTTCTGGCGTGAGCTACG
AGACAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTGACATGTTCAATGCACT
AAGTTCCAGATCCCAGACCAAGTCTGTGTTTGGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGCAGTTCT
TGGATCCATCATGGGACAATTACTAGTTATTTACTTTCTCCGCTTCAGAAGGTTTTTCAGACTGAGAGCCTAAG
CATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAAGGTTGA
AAGGAGCAGGGAAAAGATCCAGAAGCATGTTAGTTCGACATCATCATCTTTTCTTGAAGTA**TGAT**GCATATTGCA
TTATTTTATTTGCAAACCTAGGAATTGCAGTCTGAGGATCATTTAGAAGGGCAAGTTCAAGAGGATATGAAGATTT
GAGAACTTTTTAACTATTTCATTGACTAAAAATGAACATTAATGTTAAAGACTTAAGACTTTAACCTGCTGGCAGT
CCCAAAATGAAATTATGCAACTTTGATATCATATTCTTTGATTTAAATTGGCTTTTGTGATTGAGTGAACTTTAT
AAAGCATATGGTCAGTTATTTAATTAATAAAGGCAAAACCTGAACCACCTTCTGCACTTAAAGAAGTCTACAGTAC
AAATACACTATCTATCTTAGATAGATATATTTTTTTTTTATTTTTTAAATATTGTACTATTTATGGTGGTGGGGCTT
TCTTACTAATACACAAATAAATTTAATCATTTCAAAGGCATTCTATTTGGTTTAGAAGTTGATTCCCAGGAGTGC
CATATTTTACGCTACTGTATTTCTTTTTCTTGTAATGTAAGCAGCTCAGATACCATGTGCTATCATTTTTTGTATC
AAGTTTTTTGACACAGGATGTGACCACTGTCAGATCACTGTTCTTTTCTTTTCTTTTGTGATTGAAAAGCCTATAC
TACAATTTGAAGTAAATTTTTGTTTTTCTTAGTAAGTGTAATGGTTGCTTTATTTTTATTTTAAAAAGGTATGT

1805/2825
FIGURE 1609B

CTTTGGTTTGGCAGAATTCATGCAGGGCTATCAAGTGGTGTCTAGGGTAACAGTGTCCATAATTAACGCTTAGT
CATAGAGTCAAAAACATTTAAGACTGATTGGGTTGAAGTTTATAATAAATTATATTAACATGTCTTCCTTTTGA
GGTAAAGATATATACTTTGTCAAATATCATTTTGTCAFCCTCTAAATATAAATCCAAATACCTCAGCTAAGTAAT
TGTATTTTATTATTTTACTGTTATGTATGTTTTTAATCATATTTCTTAGGAAGTATAGGCTACTGGACTTAGAA
TAAAAAGTCCCCAAACCCAAACAAATGGTTTATGAACCAGAGTATATGTGGAAGATTCTTTGCTGGTCTTGCTCT
GTGTGCATCTGAAGCTTCTTTGGCCTAGATTTTAGCACAAACCTGAGTATATCTCTTCTACTTTTCATCATGTGTT
CTGTACCTTCTTTTTGTTTCATTGGGCATGCTAGGGAAATAGGTGGATTTTGTGTGTAATGCCATCAGTTTTTAT
GAAAGCTTGATGAGGTATAGGTCATTTGTTTTGAGTATGTGGGCCAGAAATTTAAAATTAGAAATTTGTTTTCT
GTTGAGTATATAAACAAAAATTGGTCCCAATTCTAACAGGTTTAATCCTTCTTGAAGCCAATAAGTTTTATCTTT
TATAATCTGTCAGGATGAACCACTCCTTAGCTTTTATCCAATATTAACTGCAAGTGTTAGCACTGAAATATTGT
CATTGATAGGGAAATATCTATTCTTTGAGTCATTGTTACTGAGGCAGTTGAGTGTAAGGAGCTGGCTGCAGTTT
ATTCTACTTAACCCTTTAAGGCTGAATTGTCAAATGTACATTGTTCCATGTCGTTAGATGGAACATGGAAGCCAT
TGTCTAATCAACTCTATCATTAGTGACTTGATGTCTCATACCTTAATTTTGTAATGATTTTTATTCTCTGTTACA
AAGACTTGAAATACGTATTAAATGCACGTTAATGTTTTGCTTTGCATTTTAGGTTTCAGATTATGACTTGATTGAA
ATAAATGTGCCTATACATTCATTTGCTTTGTACTATAAAAAATAAAAAATGATTTCTTAAGTTAAAAAAAAAAAAAA
AAA

1806/2825
FIGURE 1610

MIPVLTSKKASELPVSEVASILQADLQNGLNKCEVSHRRAFHGWNEFDISEDEPLWKKYISQFKNPLIMLLLSA
VISVLMHQFDDAVSITVAILIVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHTLARDLVPGDTVCLSVG
DRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAQPAAATNGDLASRSNIAFMGTLVRCGKAKGVVIGTGENSEF
GEVFKMMQAEAEAPKTPLQKSMDDLKGQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVSLAVAAIPEGLPIVVTV
TLALGVMRMVKKRAIVKKLPIVETLGCCNVICSDKTGTLTKNEMTVTHIFTSDGLHAEVTGVGYNQFGEVIVDGD
VVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTGALIALAMKMGLDGLQQDYIRKAEYFSSSEQKWMVAVKCV
HRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQRDVYQQEKARMGSAGLRVLALASGPPELGQLTFLGL
VGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEIDAMDVQQLSQIVPKVAV
FYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEADMILVDDDFQTIMSAIEE
GKGIYNNIKNFVRFLSTSLAALTSLATLMNFPNPLNAMQILWINIIMDGPPAQSLGVEFVDKDVIRKPPRNW
KDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRDTTMTFTCFVFFDMFNALSSRSQTKSVFEIGLCSN
RMFCYAVLGSIMGQLLVYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEI IKKVERSREKI QKHSVSTSSSF
LEV

1807/2825

FIGURE 1611

CCTCCTACACCTTCAGCACCCCTGCCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGTAGCCCTCTTGCA
AAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGTAGAATCACCAAG
AAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCCCACAGGTCCTGGA
ATGGCACCAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTTCGTCGGGTTATTGCACAGCGATTA
ATGCAATCAAAGCAAACCATACCTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTTTTGTTGGTACGG
AAAGAACTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAACG TTCAGCTTTG
GCATGTTTAAAAGTTCCCGAAGCAAATTCCTTCTGGATGGACACAGTTATAAGACAAAATCATGTTGTTGATGTC
AGTGTTCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAAGGAGTGGAAC
ATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACAT

1808/2825
FIGURE 1612A

ATAAAAGGGGGCTGAGGAAATACCGGACACGGTCACCCGTTGCCAGCTCTAGCCTTTAAATTCCCGGCTCGGGGA
CCTCCACGCACCGCGGCTAGCGCCGACAACCAGCTAGCGTGCAAGGCGCCGCGGCTCAGCGCGTACCGGCGGGCT
TCGAAAACCGCAGTCTCCGGCGACCCCGAACTCCGCTCCGGAGCCTCAGCCCCCTGGAAAGTGATCCCGGCATCC
GAGAGCCAAG**ATG**CCGGCCCACTTGCTGCAGGACGATATCTCTAGCTCCTATACCACCACCACCACCATACAGC
GCCTCCCTCCAGGGTCTTGCAGAATGGAGGAGATAAGTTGGAGACGATGCCCTCTACTTGGAAGACGACATTCTG
CCCTGATATAAAAGATGATATATATGACCCACCTACAAGGATAAGGAAGGCCCAAGCCCCAAGGTTGAATATGT
CTGGAGAAACATCATCCTTATGTCTCTGCTACACTTGGGAGCCCTGTATGGGATCACTTTGATTCTACCTGCAA
GTTCTACACCTGGCTTTGGGGGTATTCTACTATTTTGTGTCAGTGCCCTGGGCATAACAGCAGGAGCTCATCGTCT
GTGGAGCCACCGCTCTTACAAAGCTCGGCTGCCCTACGGCTCTTTCTGATCATTGCCAACACAATGGCATTCCA
GAATGATGTCTATGAATGGGCTCGTGACCACCGTGCCACCACAAGTTTTTCAGAAACACATGCTGATCCTCATAA
TTCCCGACGTGGCTTTTTCTTCTCTCACGTGGGTGGCTGCTTGTGCGCAAACACCCAGCTGTCAAAGAGAAGGG
GAGTACGCTAGACTTGTCTGACCTAGAAGCTGAGAACTGGTGATGTTCCAGAGGAGGTACTACAAACCTGGCTT
GCTGCTGATGTGCTTCATCCTGCCCACGCTTGTGCCCTGGTATTTCTGGGGTGAAACTTTTCAAACAGTGTGTT
CGTTGCCACTTTCTTGCGATATGCTGTGGTGCTTAATGCCACCTGGCTGGTGAACAGTGTGCCCACCTCTTCGG
ATATCGTCCTTATGACAAGAACATTAGCCCCCGGAGAATATCCTGGTTTTCACTTGGAGCTGTGGGTGAGGGCTT
CCACAACCTACCACCCTCTTTCCCTATGACTACTCTGCCAGTGAGTACCGCTGGCACATCAACTTCACCACATT
CTTCATTGATTGCATGGCCGCCCTCGGTCTGGCCTATGACCGGAAGAAAGTCTCCAAGGCCGCATCTTGCCAG
GATTAAGAAAGAACCGGAGATGGAACTACAAGAGTGGCT**TGAG**TTTGGGGTCCCTCAGGTTTTCTTTTTCAAAC
AGCCAGGCAGAGGTTTTAATGTCTGTTTATTAATACTACTGAATAATGCTACCAGGATGCTAAAGATGATGATGTTA
ACCCATTCCAGTACAGTATTCTTTTTAAATTCAAAAGTATTGAAAGCCAACAACCTCTGCCTTTATGATGCTAAGC
TGATATTATTTCTTCTCTTATCCTCTCTCTCTTCTAGGCCCATTTGCTCCTCTTTTCACTTTATTGCTATCGCCCT
CCTTTCCCTTATTGCTCCTCCAGGCAAGCAGCTGGTCAGTCTTTGCTCAGTGTCCAGCTTCCAAAGCCTAGACAAC
CTTTCTGTAGCCTAAACGAATGGTCTTTGCTCCAGATAACTCTCTTTCCCTTGAGCTGTTGTGAGCTTTGAAGTA
GGTGGCTTGAGCTAGAGATAAAACAGAATCTTCTGGGTAGTCCCCGTGTTGATTATCTTCAGCCCAGGCTTTTGCT
AGATGGAATGGAAAAGCAACTTCATTTGACACAAAGCTTCTAAAGCAGGTAAATTGTGCGGGGAGAGAGTTAGCA
TGTATGAATGTAAGGATGAGGGAAGCGAAGCAAGAGGAACCTCTCGCCATGATCAGACATACAGCTGCCTACCTA
ATGAGGACTTCAAGCCCCACCACATAGCATGCTTCTCTCTCTCGGCTCGGGGTAAAAGTGGCTGCGGTGTT
TGGCAATGCTAATTCAATGCCGCAACATATAGTTGAGGCCGAGGATAAAGAAAAGACATTTTAAGTTTGTAGTAA
AAGTGGTCTCTGCTGGGGAAGGGTTTTCTTTCTTTTTCTTTAATAACAAGGAGATTTCTTAGTTTCATATATC
AAGAAGTCTTGAAGTTGGGTGTTTCCAGAATTGGTAAAAACAGCAGCTCATGGAATTTTGAGTATTCATGAGCT
GCTCATTACAGTTCTTTCTCTTTCTGCTCTGCCATCTTCAGGATATTGGTTCTTCCCCTCATAGTAATAAGATG
GCTGTGGCATTTCCAAACATCCAAAAAAGGGAAGGATTTAAGGAGGTGAAGTCGGGTCAAAAATAAAATATATA
TACATATATACATTGCTTAGAACGTTAAACTATTAGAGTATTTCCCTTCCAAAGAGGGATGTTTGGAAGAACTC
TGAAGGAGAGGAGGAATTAGTTGGGATGCCAATTTCTCTCCACTGCTGGACATGAGATGGAGAGGCTGAGGGAC
AGGATCTATAGGCAGCTTCTAAGAGCGAACTTCACATAGGAAGGGATCTGAGAACACGTTGCCAGGGGCTTGAGA
AGGTTACTGAGTGAGTTATTGGGAGTCTTAATAAAATAAACTAGATATTAGGTCCATTCAATTAATTAGTTCCAGT
TTCTCCTTGAAATGAGTAAAACTAGAAGGCTTCTCTCCACAGTGTTGTGCCCCTTCACTCATTTTTTTTTTGAGG
AGAAGGGGGTCTCTGTTAACATCTAGCCTAAAGTATACAACTGCCTGGGGGGCAGGGTTAGGAATCTCTTCACTA
CCCTGATTCTTGATTCCCTGGCTCTACCCTGTCTGTCCCTTTTCTTTGACCAGATCTTTCTCTTCCCTGAACGTTT
TCTTCTTTCCCTGGACAGGCAGCCTCCTTTGTGTGATTTCAGAGGCAGTGATGACTTGCTGTCCAGGCAGCTCCC
TCCTGCACACAGAATGCTCAGGGTCACTGAACCACTGCTTCTCTTTTGAAAGTAGAGCTAGCTGCCACTTTACAG
TGGCCTCCGCAGTGCTCCACCTACACCCCTGTGCTCCCCCTGCCACACTGATGGCTCAAGACAAGGCTGGCAAAC
CCTCCCAGAAACATCTCTGGCCCAGAAAGCCTCTCTCTCCCTCCCTCTCTCATGAGGCACAGCCAAGCCAAGCGC
TCATGTTGAGCCAGTGGGCCAGCCACAGAGCAAAAGAGGGTTTTATTTTCAGTCCCCTCTCTCTGGGTGAGAACCA
GAGGGCATGCTGAATGCCCCCTGCTTACTTGGTGAGGGTGCCCCGCTGAGTCAGTGCTCTCAGCTGGCAGTGCA
ATGCTTGTAGAAGTAGGAGGAAACAGTTCTCACTGGGAAGAAGCAAGGGCAAGAACCCAAGTGCCTCACCTCGAA
AGGAGGCCCTGTTCCCTGGAGTCAGGGTGAAGTCAAAGCTTTGGCTGAGACCTGGGATTTGAGATACCACAAAC
CCTGCTGAACACAGTGTCTGTTTCCAGCAAACCTAACAGCATTCCCTACAGCCTAGGGCAGACAATAGTATAGAAGT

1809/2825
FIGURE 1612B

CTGGAAAAAACAAAAACAGAATTTGAGAACCTTGGACCACTCCTGTCCCTGTAGCTCAGTCATCAAAGCA'GAAG
TCTGGCTTTGCTCTATTAAGATTGGAAATGTACACTACCAAACACTCAGTCCACTGTTGAGCCCCAGTGCTGGAA
GGGAGGAAGGCCTTTCTTCTGTGTTAATTGCGTAGAGGCTACAGGGGTTAGCCTGGACTAAAGGCATCCTTGTCT
TTTGAGCTATTACCTCAGTAGAAAAGGATCTAAGGGAAGATCACTGTAGTTTGTGTTGACCTGTGCACCT
ACCCCTTGGAAATGTCTGCTGGTATTTCTAATTCCACAGGTCATCAGATGCCTGCTTGATAATATATAAAACAATA
AAAACAACCTTTCACCTTCTTCTATTGTAATCGTGTGCCATGGATCTGATCTGTACCATGACCCTACATAAGGCTG
GATGGCACCTCAGGCTGAGGGCCCCAATGTATGTGTGGCTGTGGGTGTGGGTGGGAGTGTGTCTGCTGAGTAAGG
AACACGATTTTCAAGATTCTAAAGCTCAATTCAAGTGACACATTAATGATAAACTCAGATCTGATCAAGAGTCCG
GATTTCTAACAGTCCCTGCTTTGGGGGGTGTGCTGACAACTTAGCTCAGGTGCCTTACATCTTTTCTAATCACAG
TGTTGCATATGAGCCTGCCCTCACTCCCTCTGCAGAATCCCTTTGCACCTGAGACCCTACTGAAGTGGCTGGTAG
AAAAAGGGGCCTGAGTGGAGGATTATCAGTATCACGATTTGCAGGATTCCTTCTGGGCTTCATTCTGGAACTT
TTGTTAGGGCTGCTTTTCTTAAGTGCCACATTTGATGGAGGGTGGAAATAATTTGAATGTATTTGATTTATAAG
TTTTTTTTTTTTTTTTGGGTTAAAAGATGGTTGTAGCATTTAAAATGGAAAATTTCTCCTTGGTTTGCTAGTATC
TTGGGTGTATTCTCTGTAAGTGTAGCTCAAATAGGTCATCATGAAAGGTTAAAAAGCGAGGTGGCCATGTTATG
CTGGTGGTTAAGGCCAGGGCCTCTCCAACCACTGTGCCACTGACTTGCTGTGTGACCCTGGGCAAGTCACTTAAC
TATAAGGTGCCTCAGTTTTCTTCTGTAAAATGGGGATAATAATACTGACCTACCTCAAAGGGCAGTTTTGAGG
CATGACTAATGCTTTTTTAGAAAGCATTTTGGGATCCTTCAGCACAGGAATTCTCAAGACCTGAGTATTTTTTATA
ATAGGAATGTCCACCATGAACTTGATACGTCCGTGTGTCCCAGATGCTGTCATTAGTCTATATGGTTCTCCAAGA
AACTGAATGAATCCATTGGAGAAGCGGTGGATAACTAGCCAGACAAAATTTGAGAATACATAAAACAACGCATTGC
CACGGAAACATACAGAGGATGCCTTTTCTGTGATTGGGTGGGATTTTTTCCCTTTTTATGTGGGATATAGTAGTT
ACTTGTGACAAAAATAATTTTGAATAATTTCTATTAATATCAACTCTGAAGCTAATTGTACTAATCTGAGATTG
TGTTTGTTCATAATAAAAGTGAAGTGAATCTAAAAAAAAAAAAAAAAA

1810/2825
FIGURE 1613

MPAHLQLQDDISSSYTTTTTITAPPSRVLQNGGDKLETMPLYLEDDIRPDIKDDIYDPTYKDKEGPSKVEYVWRN
IILMSLLHLGALYGITLIPTCKFYTWLWGVFYYFVSALGITAGAHRLWSHRYSKARLPLRLFLIIANTMAFQNDV
YEWARDHRAHHKFSETHADPHNSRRGFFFSHVGWLLVRKHPAVKEKGSTLDLSDLEAEKLVMFQRRYYKPGLLLM
CFILPTLVPWYFWGETFQNSVFVATFLRYAVVLNATWLVNSAAHLFGYRPYDKNISPRENILVSLGAVGEGFHNY
HHSFPYDYSASEYRWHINFTTFFIDCMAALGLAYDRKKVSKAAILARIKRTGDGNYKSG

1811/2825
FIGURE 1614

CGAGCGGCGGCGGAGCAGGCATTTCCAGCAGTGAGGAGACAGCCAGAAGCAAGCTATTGGAGCTGAAGGAACCTG
AGACAGAAGCTAGTCCCCCTCTGAATTTTACTGATGAAGAACTGAGGCCACAGAGCTAAAGTGACTTTTCCCA
AGGTCGCCCAGCGAGGACGTGGGACTTCTCAGACGTCAGGAGAGTGATGTGAGGGAGCTGTGTGACCATAGAAA
TGACGTGTTAAAAACCAGCGCTGCCCTCTTTGAAAAGCCAGGGAGCATCATTATTTAGCCTGCTGAGAAGAAGAA
ACCAAGTGTCGGGATTCTCAGACCTCTCTGCGGCCCCAAGTGTTTCGTGGTGCTTCCAGAGGCAGGGCT**ATG**CTCAC
ATTTCATGGCCTCTGACAGCGAGGAAGAAGTGTTGATGAGCGGACGTCCCTAATGTGCGCCGAGAGCCCCACGCC
GCGCTCCTGCCAGGAGGGCAGGCAGGGCCCAGAGGATGGAGAGAACACTGCCAGTGAGAGAAGCCAGGAGAACGA
GGAGGACGGTGAGGAGGACCCTGACCGCTATGTCTGTAGTGGGGTTCCCGGGCGGCCGACGGCCTGGAGGAAGA
GCTGACCCCTCAAATACGGAGCGAAGCACGTGATCATGCTGTTTGTGCCCTGTCACTCTGTGCATGATCGTGGTGGT
AGCCACCATCAAGTCTGTGCGCTTCTACACAGAGAAGAATGGACAGCTCATCTACACGACATTCACTGAGGACAC
ACCCTCGGTGGGCCAGCGCCTCCTCAACTCCGTGCTGAACACCCTCATCATGATCAGCGTCATCGTGGTTATGAC
CATCTTCTTGGTGGTGTCTACAAGTACCGCTGCTACAAGTTCATCCATGGCTGGTTGATCATGTCTTCACTGAT
GCTGCTGTTCCCTCTTACCTATATCTACCTTGGGGAAGTGCTCAAGACCTACAATGTGGCCATGGACTACCCAC
CCTCTTGCTGACTGTCTGGAACCTTCGGGGCAGTGGGCATGGTGTGCATCCACTGGAAGGGCCCTCTGGTGCTGCA
GCAGGCCTACCTCATCATGATCAGTGCCTCATGGCCCTAGTGTTTCATCAAGTACCTCCCAGAGTGGTCCGCGTG
GGTCATCCTGGGCGCCATCTCTGTGTATGATCTCGTGGCTGTGCTGTGTCCCAAAGGGCCTCTGAGAATGCTGGT
AGAAACTGCCCAGGAGAGAAATGAGCCCATATTCCTGCCCCTGATATACTCATCTGCCATGGTGTGGACGGTTGG
CATGGCGAAGCTGGACCCCTCCTCTCAGGGTGCCCTCCAGCTCCCCCTACGACCCGGAGATGGAAGAAGACTCCTA
TGACAGTTTTGGGGAGCCTTCATACCCCGAAGTCTTTGAGCCTCCCTTGACTGGCTACCCAGGGGAGGAGCTGGA
GGAAGAGGAGGAAAGGGGCGTGAAGCTTGGCCTCGGGGACTTCATCTTCTACAGTGTGCTGGTGGGCAAGGCGGC
TGCCACGGGCAGCGGGGACTGGAATACCACGCTGGCCTGCTTCGTGGCCATCCTCATTGGCTTGTGTCTGACCCCT
CCTGCTGCTTGCTGTGTTCAAGAAGGCGCTGCCCCGCCCTCCCCATCTCCATCACGTTTCGGGCTCATCTTTTACTT
CTCCACGGACAACCTGGTGC GGCGCTTCATGGACACCCTGGCCTCCCATCAGCTCTACATCTGAGGGACATGGTG
TGCCACAGGCTGCAAGCTGCAGGGAATTTTCATTGGATGCAGTTGTATAGTTTTTAACTCTAGTGCCATATATTT
TTAAGACTTTTCTTTCCTTAAAAAATAAAGTACGTGTTTACTTGGTGAGGAGGAGGCAGAACCAGCTCTTTGGTG
CCAGCTGTTTCATCACCAGACTTTGGCTCCCGCTTTGGGGAGCGCCTCGCTTCACGGACAGGAAGCACAGCAGGT
TTATCCAGATGAACTGAGAAGGTCAGATTAGGGCGGGGAGAAGAGCATCCGGCATGAGGGCTGAGATGCGCAAAG
AGTGTGCTCGGGAGTGGCCCTGGCACCTGGGTGCTCTGGCTGGAGAGGAAAAGCCAGTTCCTACGAGGAGTGT
TCCCAATGCTTTGTCCATGATGTCTTGTTATTTTATTGCTTTAGAACTGAGTCCTGTTCTTGTACGGCAGT
CACACTGCTGGGAAGTGGCTTAATAGTAATATCAATAAATAGATGAGTCCTGTTAGAAAAA

1812/2825
FIGURE 1615

MLTFMASDSEEEVCDERTSLMSAESPTPRSCQEGRQGPEDGENTAQWRSQENEEEDGEEDPDRYVCSGVPGRPPGL
EEELTLKYGAKHVIMLFVPVTLCMIVVVATIKSVRFYTEKNGQLIYTTFTEDTPSVGQRLLNSVLNTLIMISVIV
VMTIFLVVLYKYRCYKF IHGWLIMSSLMLLFLFTYIYLGEVLKTYNVAMDYPTLLLLTVWNFGAVGMVCIHWKGPL
VLQQAYLIMISALMALVFIKYLPEWSAWVILGAISVYDLVAVLCPKGPLRMLVETAQERNEPIFPALIYSSAMVW
TVGMAKLDPSSQALQLPYDPEMEDSYDSFGEPSYPEVFEPPLTGYPGEELEEEEEEERGVKLGLGDFIFYSVLVGK
AAATGSGDWNTTLACFVAILIGLCLTLLLLAVFKKALPALPISITFGLIFYFSTDNLVRPFMDTLASHQLYI

1813/2825
FIGURE 1616

AGCCAGAGGGACGAGCTAGCCCGACG**ATG**GGCCAGGGGACATTGATCCGTGTGACCCCAGAGCAGCCCACCCATG
CCGTGTGTGTGCTGGGCACCTTGACTCAGCTTGACATCTGCAGCTCTGCCCCTGAGGACTGCACGTCCCTTCAGCA
TCAACGCCTCCCCAGGGGTGGTCGTGGATATTGCCACAGCCCTCCAGCCAAGAAGAAATCCACAGGTTCCCTCCA
CATGGCCCCCTGGACCCTGGGGTAGAGGTGACCCCTGACGATGAAAGCGGCCAGTGGTAGCACAGGCGACCAGAAGG
TTCAGATTTTCATACTACGGACCCAAGACTCCACCAGTCAAAGCTCTACTCTACCTCACCGCGGTGGAAATCTCCC
TGTGCGCAGACATCACCCGCACCGGCAAAGTGAAGCCAACCAGAGCTGTGAAAGATCAGAGGACCTGGACCTGGG
GCCCTTGTGGACAGGGTGCCATCCTGCTGGTGAAGTGTGACAGAGACAATCTCGAATCTTCTGCCATGGACTGCG
AGGATGATGAAGTGCTTGACAGCGAAGACCTGCAGGACATGTCGCTGATGACCCTGAGCACGAAGACCCCCAAGG
ACTTCTTCACAAACCATACTGCTGCTCCACGTGGCCAGGTCTGAGATGGACAAAGTGAGGGTGTTCAGGCCA
CACGGGGCAAACGTCTCTCCAAGTGCAGCGTAGTCTTGGGTCCCAAGTGGCCCTCTCACTACCTGATGGTCCCCG
GTGGAAGCACAAACATGGACTTCTACGTGGAGGCCCTCGCTTTCCCGGACACCGACTTCCCGGGGCTCATTACCC
TCACCATCTCCCTGCTGGACACGTCCAACCTGGAGCTCCCCGAGGCTGTGGTGTTCCAAGACAGCGTGGTCTTCC
GCGTGGCGCCCTGGATCATGACCCCCAACACCCAGCCCCCGCAGGAGGTGTACGCGTGCAGTATTTTTGAAAATG
AGGACTTCCTGAAGTCAGTGACTACTCTGGCCATGAAAGCCAAGTGCAAGCTGACCATCTGCCCTGAGGAGGAGA
ACATGGATGACCAGTGGATGCAGGATGAAATGGAGATCGGCTACATCCAAGCCCCACACAAAACGCTGCCCGTGG
TCTTCGACTCTCCAAGGAACAGAGGCCTGAAGGAGTTTCCCATCAAACGAGTGATGGGTCCAGATTTTGGCTATG
TAACTCGAGGGCCCCAAACAGGGGTATCAGTGGACTGGACTCCTTTGGGAACCTGGAAGTGAGCCCCCAGTCA
CAGTCAGGGGCAAGGAATACCCGCTGGGCAGGATTCTCTTCGGGGACAGCTGTTATCCAGCAATGACAGCCGGC
AGATGCACCAGGCCCTGCAGGACTTCCTCAGTGCCCAGCAGGTGCAGGCCCTGTGAAGCTCTATTCTGACTGGC
TGTCCGTGGGCCACGTGGACGAGTTCTGAGCTTTGTGCCAGCACCCGACAGGAAGGGCTTCCGGCTGCTCCTGG
CCAGCCCCAGGTCTCTGCTACAACTGTTCCAGGAGCAGCAGAATGAGGGCCACGGGGAGGCCCTGCTGTTTGAAG
GGATCAAGAAAAAAAAACAGCAGAAAATAAAGAACATTCTGTCAAACAAGACATTGAGAGAACATAATTCAATTG
TGGAGAGATGCATCGACTGGAACCGCGAGCTGCTGAAGCGGGAGCTGGGCCTGGCCGAGAGTGACATCATTGACA
TCCCGCAGCTCTTCAAGCTCAAAGAGTTCTCTAAGGCGGAAGCTTTTTTCCCCAACATGGTGAACATGCTGGTGC
TAGGGAAGCACCTGGGCATCCCCAAGCCCTTCGGGGCCGTCATCAACGGCCGCTGCTGCCTGGAGGAGAAGGTGT
GTTCCCTGCTGGAGCCACTGGGCCTCCAGTGCACCTTCATCAACGACTTCTTACCTACCACATCAGGCATGGGG
AGGTGCACTGCGGCACCAACGTGCGCAGAAAGCCCTTCTCCTTCAAGTGGTGGAACATGGTGCCCT**AG**AGCCCATC
TTCCCTGGCGTCTCTCCCTCCTGGCCAGATGTCGCTGGGTCTCTGTCAGTGTGGCAAGCAAGAGCTCTTGTGAA
TATTGTGGCTCCCTGGGGGCGGCCAGCCCTCCCAGCAGTGGCTTGCTTTCTTCTCCTGTGATGTCCAGTTTCCC
ACTCTGAAGATCCCAACATGGTCCTAGCACTGCACACTCAGTTCTGCTCTAAGAAGCTGCAATAAAGTTTTTTTA
AGTCACTTTGTAC

1814/2825
FIGURE 1617

MAQGTILIRVTPEQPTHAVCVLGTLTQLDICSSAPEDCTSFSINASPGVVVDIAHSPPAKKKSTGSSTWPLDPGVE
VTLTMKAASGSTGDQKVQISYYGPKTPPVKALLYLTAVEISLCADITRTGKVKPTRAVKDQRTWTWGPGCGGAIL
LVNCDRDNLESSAMDCEDDEVLDSEDLQDMSLMTLSTKTPKDDFTNHTLVLHVARSEMDKVRVFQATRGLSSKC
SVVLGPKWPSHYLMVPGGKHNMDFYVEALAFPDITDFPGLITLTISLLDTSNLELPEAVVFQDSVVFRVAPWIMTP
NTQPPQEVYACSFENEDFLKSVTTLAMKAKCKLTICPEEENMDDQWMQDEMEIGYIQAPHKTLPVVFDSPRNRG
LKEFPIKRVMGPDFGYVTRGPQTGGISGLDSFGNLEVSPPVTVRGKEYPLGRILFGDSCYPSNDSRQMHQALQDF
LSAQQVQAPVKLYSDWLSVGHVDEFLSFVPAPDRKGFRLLLASPRSCYKLFQEQQNEGHEALLFEGIKKKKQQK
IKNILSNKTLREHNSFVERCIDWNRELLKRELGLAESDIIDIPQLFKLKEFSKAEAFFPNMVNMLVLGKHLGIPK
PFGPVINGRCCLEEKVCSLLEPLGLQCTFINDFFTYHIRHGEVHCGTNVRRKPFSEKWWNMVP

1815/2825
FIGURE 1618

CCACGCGTCCGGTGCGGACGGGCGCGGACCACCTCCAGGGGCTAAGTG**ATGG**ATCCTTGACTCCGTGTTGCAGAT
TACTATTTTTTTACACCATACGTGTATCCAGCCACATGGCCAGAAGATGACATCTTCCGACAAGCTATTAGTCTT
CTGATTGTAACAAATGTTGGTGCTTACATCCTTTATTTCTTCTGTGCAACACTGAGCTATTATTTTGTCTTCGAT
CATGCATTAATGAAACATCCACAATTTTTAAAGAAATCAAGTCCGTCGAGAGATTAAGTTTACTGTCCAGGCATTG
CCATGGATAAGTATTCTTACTGTTGCACTGTTCTTGCTGGAGATAAGAGGTTACAGCAAATTACATGATGACCTA
GGAGAGTTTCCATATGGATTGTTTGAACCTTGTCGTTAGTATAATATCTTTCTCTTTTTTCACTGACATGTTTCATC
TACTGGATTACAGAGGCCCTTCATCATAGACTGGTATATAAGCGCCTACATAAACCTCACCATATTTGGAAGATT
CCTACTCCATTTGCAAGTCATGCTTTTACCCTATTGATGGCTTTCTTCAGAGTCTACCTTACCATATATACCCT
TTTATCTTTCCATTACACAAGGTGGTTTATTTAAGTCTGTACATCTTGTTAATATCTGGACAATTTCCATTTCAT
GACGGTGATTTTTCGTGTCCCCAAATCTTACAGCCATTTATTAATGGCTCAGCTCATCATACAGACCACCATATG
TTCTTTGACTATAATTATGGACAATATTTCACTTTGTGGGATAGGATTGGCGGCTCATTCAAAAATCCTTCATCC
TTTGAGGGGAAGGGACCGCTCAGTTATGTGAAGGAGATGACAGAGGGAAAGCGCAGCAGCCCTTCAGGAAATGGC
TGTAAGAATGAAAAATTATTCAATGGAGAGTTTACAAAGACTGA**ATAG**ATTATTGCCAGTTATTCTTAAGTAAG
GACAAAGAAGGAAATATCATCGTATTTCTTTTTTTAATAAGGAAAAAATAATCTCCATACAGTCAAGATACATA
GTAAATGGTATCATTTGGAAATCAGCATCGTGGGCACTGCTGAGGAATGATCCTAGTGGTAGGTCAGAAGAAGAT
GCTGTGAACACCAGGACTTTAATCTTATGCTTAAATGCCAGATGTTGTTTCGGGCCCCAAGTTGATTTCTAGCA
GCAGATCTGTAGTTTGTATAGCCTCAACAACAATTTTAAATAAGATGGAGAATAAATTATTGAGGGGACTAGGCT
ATATGCATTTGCCTTCATCCACCCATGTTTATTAAGAATCATTGTGCTTAAATAATACCAAGACTAAGCACCATAA
CCAAGAAATACTAATGTAAAGATTGTTTCTTGTTTCAGGAATGGTTAATTCTTCAACGTTGGTATGATAATGATA
ACTTGTTTTGACTTGAATAAAGTACTACATCAGTGTGGAAAAAATTCTGATACATTAGCAGCTATGTAAATGAC
CTAATTGATAGCAGGTGTAATAAGACTATCGTCTTCCTACACATAGGAGGCTCATTCTCTGGACACACTATCACC
TATTACATTTTACTGATTAACAAATAAATTGGAATTTAAAAATATCGATATCACCATGATTTAATCCAGATCTGG
GATTATGTAGCTAAACATTGTGATGATTATTATTTAAAACCATTATTTAATAAGAGTAAAAATATGTGAATCTGG
ATATATTTAAAAAAGAAATTTGATTGCCAGATAATATATTAGGCACTACTGATTTTTTAGTTAAATTGATGCA
CTACACTTTTGATGTTTGAAGTTACAACCTGTAATTTTTTTGTAAAGGAAATAATTGCCAAATACCTAGGCCCAT
TGCTGACGATTAGTTCTAAATCTTATTCCCTCCTCTTCTCCCCTCACTTTTCCCTACTTCTCTGCAAAAAGATT
TAACAAATACATTTCATAAGGAAATGTGTGTTGTAACAAATATATTGCAAAAACATAGTTTGTAAGGCATTCTAT
AAGCTATTTATGTAAATCAATAAAAGTTGATCATAATTAACTGTAAAAAAGGCGGC

1816/2825
FIGURE 1619

MDLVLRVADYYFFTPYVYPATWPEDDIFRQAISLLIVTNVGAYILYFFCATLSYYFVFDHALMKHPQFLKNQVRR
EIKFTVQALPWISILTVALFLEIRGYSKLHDDLGEFPYGLFELVVSIIISFLFFTDMFIYWIHRGLHHRLVYKRL
HKPHHIWKIPTPFASHAFHPIDGFLQSLPYHIYPFIFPLHKVVYLSLYILVNIWTISIHGDGFRVPQILQPFING
SAHHTDHHMFFDYNYGQYFTLWDRIGGSFKNPSSFEGKGPLSYVKEMTEGKRSSPSGNGCKNEKLFNGEFTKTE

1817/2825
FIGURE 1620

TCCTGCTCTGGGGAAGTGGGCACACGTTAAAAGAAATGTTTATTTTCAGTCTTCTGAAATAGGGAATTACTCTGGC
TAAAATGTAGCTCCAGAAAGGGAAAAGTGGGGCTGTATGAATCCAGGTCCAGTTTGTGTTTCTCCAGGATAAGG
CAGCTGTCGGAGGGGAAAATCATCTCCCATTTCTCCACAGGGCAGTCTGAAG^fATGGCCAATTACACGCTGGCACC
AGAGGATGAATATGATGTCCTCATAGAAGGTGAACTGGAGAGCGATGAGGCAGAGCAATGTGACAAGTATGACGC
CCAGGCACCTCTCAGCCCAGCTGGTGCCATCACTCTGCTCTGCTGTGTTTGTGATCGGTGTCTTGGACAATCTCCT
GGTTGTGCTTATCCTGGTAAAATATAAAGGACTCAAACGCGTGGAAAATATCTATCTTCTAAACTTGGCAGTTTC
TAACTTGTGTTTCTTGCTTACCCTGCCCTTCTGGGCTCATGCTGGGGGCGATCCCATGTGTAAAATTCTCATTGG
ACTGTACTTCGTGGGCCTGTACAGTGAGACATTTTTCAATTGCCTTCTGACTGTGCAAAGGTACCTAGTGTTTTT
GCACAAGGGCAACTTTTTCTCAGCCAGGAGGAGGGTGCCCTGTGGCATCATTACAAGTGTCTTGGCATGGGTAAC
AGCCATTCTGGCCACTTTGCCTGAATACGTGGTTTATAAACCTCAGATGGAAGACCAGAAAATACAAGTGTGCATT
TAGCAGAACTCCCTTCTGCCAGCTGATGAGACATTCTGGAAGCATTTTCTGACTTTAAAAATGAACATTTCTGGT
TCTTGCTCTCCCCCTATTTATTTTTACATTTCTCTATGTGCAAATGAGAAAAACACTAAGGTTTCAGGGAGCAGAG
GTATAGCCTTTTCAAGCTTGTTTTTGCCATAATGGTAGTCTTCTTCTGATGTGGGCGCCCTACAATATTGCATT
TTTCTGTCCACTTTCAAAGAACACTTCTCCCTGAGTGACTGCAAGAGCAGCTACAATCTGGACAAAAGTGTTCA
CATCACTAAACTCATCGCCACCACCCACTGCTGCATCAACCCTCTCCTGTATGCGTTTCTTGATGGGACATTTAG
CAAATACCTCTGCCGCTGTTTCCATCTGCGTAGTAACACCCCACTTCAACCCAGGGGGCAGTCTGCACAAGGCAC
ATCGAGGGAAGAACCTGACCATTCCACCGAAGTGTAA^fACTAGCATCCACCAAATGCAAGAAGAATAAACATGGAT
TTTCATCTTTCTGCATTATTTTCATGTAAATTTTCTACACATTTGTATACAAAATCGGATACAGGAAGAAAAGGGA
GAGGTGAGCTAACATTTGCTAAGCACTGAATTTGTCTCAGGCACCGTGCAAGGCTCTTTACAAACGTGAGCTCCT
TCGCTCCTACCACTTGTCCATAGTGTGGATAGGACTAGTCTCATTTCTCTGAGAAGAAAACTAAGGCGCGGAAA
TTTGTCTAAGATCACATAACTAGGAAGTGGCAGAACTGATTCTCCAGCCCTGGTAGCATTGCTCAGAGCCTACG
CTTGGTCCAGAACATCAAACCTCCAAACCTGGGGACAAACGACATGAAATAAATGTATTTTAAAACATCT

1818/2825
FIGURE 1621

MANYTLAPEDEYDVLIEGELESDEAEQCDKYDAQALSAQLVPSLCSAVFVIGVLDNLLVVLILVKYKGLKRVENI
YLLNLAVSNLCFLLTLPFWAHAGGDEMCKILIGLYFVGLYSETFFNCLLTVQRYLVFLHKGNFFSARRRVPCGII
TSVLAWVTAILATLPEYVVYKPMEDQKYKCAFSRTPFLPADETFWKHFLTLKMNISVLVLPFI FTFLYVQMRK
TLRFREQRYSLFKLVFAIMVVFLMWAPYNIAFFLSTFKEHFSLS DCKSSYNLDKSVHITKLIATTHCCINPLLY
AFLDGTF SKYLCRCFHLSNTPLQPRGQSAQGTSREEPDHSTEV

1819/2825
FIGURE 1622

GAAAAGCCGCCGGTATTTCTCCACCTGGCTCTCCTCTACCTCCAGGCAGGCGCACCCGAGGTCCCCCTCCCACCC
CACCTTCTGCCCTCCCGCACACTTGGACCAGTGCTGTTGACCCGGAAGCGGACATTTCTGCAGCTATTCTAAGCA
CACGTCGGCGGAGGGAGCGGGACGTGGCCAGCGGTGACGCGCGAAGGAGGCAGGCCCTGCGCGGGGATCACGGAA
GCCCTGTGATTACCC**ATGA**AGTTCCAGTACAAGGAGGTCCATCCCTTTGAGTATCGGAAAAAGGAAGGAGAAAAG
ATCCGGAAGAAATATCCGGACAGGGTCCCCTTGATTGTAGAGAAGGCTCCAAAAGCAAGGGTGCCTGATCTGGAC
AGGAGGAAGTACCTAGTGCCCTCCGACCTTACCGATGGCCAGTTCTACCTTTTAATCCGGAAGAGAATCCACCTG
AGACCTGAGGACGCCTTATTCTTCTTTGTCAACAACACTATCCCTCCCCTAGTGCTACCATGGGCCAACTATAT
GAGGACAGTCATGAGGAAGATGATTTTCTGTATGTGGCCTACAGTAATGAGAGTGTCTATGGGAA**TGAG**TGGTT
GGAAGCCCAGCAGATGGAAGCACCTGGACTTAGGGGTAGGGGAGGGGTGTGTGTGTGACTTGGGGAAAGAGAGGG
CGGCTCCCACCGTGAGGAGACAGAAGGTGAAGACATATAGAACTTTACACCGCACACACCGTCAACGCATTTTC
ACATGCTCAACTGATATTTTTTGTGCTTCCTTGGCCCAGGGAGAAAGCATGTCAGGACAGAGCTGTTGGATTGG
CTTTGATAGAGGAATGGGGATGATGTAATTTTATGGCATTCTGAGATTTAATTTTTGTGCAGTTTCATAGAAAG
GTCGGTCAGGAGGTGGACAAGTTGGGGTCAGAGATGATGGCAGTCCAGCAGCAACTCCCTGTGCTCCCTTCTCTT
TGGGCAGAGATTCTGTTTTTACAGTTGCACAAGACAGGTAGGGAAAGGGGACTTGTGGTAGTGGGCCATACCTG
GGGACGAAAAGAGACCCACTGTAATTGATGCATCGTGGCCCCGATCTTCCGTATCCCACACTTCTTTTCTCCCA
TCCCAGTTGCAATCTCACTCACAAACATCACAGTACCACCCCAGGGGCGGCAGTAGACACCAACCCAGAAATTTA
GACAGGGATCTCTTATCTTTGGAAAATAGGGGTTAGGCATGAGGGTGGTTATGATTAAGAAGATAATTTTGTGTT
TAAATAGCATTAAACTGGAATTGACAGAGTGAGTTGAGCATCTCTGTCTAACCTGCTCTTTCTCTCTGGTGCTCC
TCATCTCACCCCTACCTTGGAATTTAATAAGCTTCAGGCATTTCCAATTGCAGACTAAAACCACTTCTACCATCT
CCTCTAGTATTTTCCATGTATCAGGACAGAGATGTCTTATGTAGGAAGGGGCAGGTATGAAGTGAGGTAGATTA
TCTATACCTCTCACTCATTGAGGATTCTCGCTCCCATGCTGCTGTCCCTTCATTCTCACACTCACAGGAATGCTA
TGTGATGGCCAGCTGCTTCCCTTCTTGGTTATCCACTGCAGCTGCTAGTTAGAAAGGTTTGCAGGGATGACTTTT
AGTAAATCATGGGGATTTTATTGATTTATTATCACTTATAGGATTTTGTGGGGTGGGAGTGGGAGCAGGAATTG
CACTCAGACATGACATTTCAATTCATCTCTGCAAATGAAAAGGGTTCTTCTCTTGGGGGAAATCTGTGTGTGTCAG
TTCTGTGAGCTGCAAGTTCTTGTGTAATGAAGTCAATGCTGTGTCAGGCCAAG

1820/2825
FIGURE 1623

MKFQYKEVHPFEYRKKEGEKIRKKYPDRVPLIVEKAPKARVPDLDRRKYLVPDLTDGQFYLLIRKRIHLRPEDA
LFFVNNNTIPPTSATMGQLYEDSHEEDDFLYVAYSNESVYGK

1821/2825
FIGURE 1624A

CCTCTTGCGGCCACAGGCGCGGCGTCTCTCGGCGGCGGGCGGCAGCTAGCGGGAGCCGGGACGCCGGTGCAGCCGC
AGCGCGCGGAGGAACCCGGGTGTGCCGGGAGCTGGGCGGCCACGTCCGGACGGGACCGAGACCCCTCGTAGCGCA
TTGCGGCGACCTCGCCTTCCCCGGCCGCGAGCGCGCCGCTGCTTGAAAAGCCGCGGAACCCAAGGACTTTTCTCC
GGTCCGAGCTCGGGGCGCCCCGAGGCGCACGGTACCCGTGCTGCAGTCGGGCACGCCGCGGGCGCCGGGGGCGCTC
CGCAGGGCGATGGAGCCGGTCTGCAAGGAAAGTGAGGCGCCGCCGCTGCGTTCTGGAGGAGGGGGGCACAAGGTC
TGGAGACCCCGGTGGCGGACGGGAGCCCTCCCCCGCCCCGCTCCGGGGACACCAGCTCCGGCTCCATTGTTC
CGCCCGGGCTGGAGGCGCCGAGCACCGAGCGCCGCGGGAGTCGAGCGCCGGCCGCGGAGCTCTTGCGACCCCGC
CAGGACCCGAACAGAGCCCGGGGGCGGGCGGGCCGGAGCCGGGGACGCGGGCACACGCCCGCTCGCACAAAGCCACG
GCGGACTCTCCCGAGGCGGAACCTCCACGCCGAGCGAGGGTCACTTTGAAAAGGAGGATCGAGCTCACTGTGGAG
TATCCATGGAGATGTGGAGCCTTGTCACCAACCTCTAACTGCAGAACTGGG**ATGT**GGAGCTGGAAGTGCCTCCTC
TTCTGGGCTGTGCTGGTCAAGCCACACTCTGCACCGCTAGGCCGTGCCCGACCTTGCTGAACAAGCCAGCCC
TGGGGAGCCCTGTGGAAGTGGAGTCTTCTGGTCCACCCGGGTGACCTGCTGCAGTTGCGCTGTGGCTGCGG
GACGATGTGCAGAGCATCAACTGGCTGCGGGACGGGGTGCAGCTGGCGGAAAGCAACCGCACCCGCATCACAGGG
GAGGAGGTGGAGGTGCAGGACTCCGTGCCCGCAGACTCCGGCCTCTATGCTTGCGTAACCAGCAGCCCTCGGGC
AGTGACACCACCTACTTCTCCGTCAATGTTTCAGATGCTCTCCCTCTCGGAGGATGATGATGATGATGAC
TCCTCTTCAGAGGAGAAAGAAACAGATAACACCAAACCAAACCGTATGCCCGTAGCTCCATATTGGACATCCCCA
GAAAAGATGGAAAAGAAATTGCATGCAGTGCCGGCTGCCAAGACAGTGAAGTTCAAATGCCCTTCCAGTGGGACC
CCAAACCCACACTGCGCTGGTTGAAAAATGGCAAAGAATTCAAACCTGACCACAGAATTGGAGGCTACAAGGTC
CGTTATGCCACCTGGAGCATCATAATGGACTCTGTGGTGCCCTCTGACAAGGGCAACTACACCTGCATTGTGGAG
AATGAGTACGGCAGCATCAACCACACATAACAGCTGGATGTCGTGGAGCGGTCCCTCACCGGCCCATCTGCAA
GCAGGGTTGCCCGCCAACAAAACAGTGGCCCTGGGTAGCAACGTGGAGTTCATGTGTAAGGTGTACAGTGACCCG
CAGCCGCACATCCAGTGGCTAAAGCACATCGAGGTGAATGGGAGCAAGATTGGCCCAGACAACCTGCCTTATGCC
CAGATCTTGAAGACTGCTGGAGTTAATAACACCGACAAAGAGATGGAGGTGCTTCACTTAAAGAAATGTCTCCTTT
GAGGACGCAGGGGAGTATACGTGCTTGGCGGGTAACCTCTATCGGACTCTCCCATCACTCTGCATGGTTGACCGTT
CTGGAAGCCCTGGAAGAGAGGCGGCGAGTGATGACCTCGCCCTGTACCTGGAGATCATCATCTATTGCACAGGG
GCCTTCTCATCTCCTGCATGGTGGGGTCGGTCATCGTCTACAAGATGAAGAGTGGTACCAAGAAGAGTGACTTC
CACAGCCAGATGGCTGTGCACAAGCTGGCCAAGAGCATCCCTCTGCGCAGACAGGTAACAGTGTCTGCTGACTCC
AGTGATCCATGAACCTCTGGGGTTCTTCTGGTTTCGGCCATCACGGCTCTCCTCCAGTGGGACTCCCATGTAGCA
GGGGTCTCTGAGTATGAGCTTCCCGAAGACCCTCGCTGGGAGCTGCCTCGGGACAGACTGGTCTTAGGCAAACCC
CTGGGAGAGGGCTGCTTTGGGCAGGTGGTGTGGCAGAGGCTATCGGGCTGGACAAGGACAAACCCAAACCGTGTG
ACCAAAGTGGCTGTGAAGATGTTGAAGTCGGACGCAACAGAGAAAGACTTGTCAGACCTGATCTCAGAAATGGAG
ATGATGAAGATGATCGGGAAGCATAAGAATATCATCAACCTGCTGGGGGCTGCACGCAGGATGGTCCCTTGAT
GTCATCGTGGAGTATGCCTCCAAGGGCAACCTGCGGGAGTACCTGCAGGCCCGGAGGCCCCAGGGCTGGAATAC
TGCTACAACCCAGCCACAACCCAGAGGAGCAGCTCTCTCCAAGGACCTGGTGTCTGCGCCTACCAGGTGGCC
CGAGGCATGGAGTATCTGGCCTCCAAGAAGGTGTGGAACCTGAAGGCTCCCTGGTGCATACACCGAGACCTGGC
AGCCAGGAATGTCTGGTGACAGAGGACAATGTGATGAAGATAGCAGACTTTGGCCTCGCACGGGACATTACCA
CATCGACTACTATAAAAAGACAACCAACGGCCGACTGCCTGTGAAGTGGATGGCACCCGAGGCATTATTTGACCG
GATCTACACCCACCAGAGTGATGTGTGGTCTTTTCGGGGTGCTCCTGTGGGAGATCTTCACTCTGGGCGGCTCCCC
ATACCCCGGTGTGCTGTGGAGGAACTTTTCAAGCTGCTGAAGGAGGGTCACCGCATGGACAAGCCAGTAACCTG
CACCAACGAGCTGTACATGATGATGCGGGACTGCTGGCATGCAGTGCCTCACAGAGACCCACCTTCAAGCAGCT
GGTGGAAAGACCTGGACCGCATCGTGGCCTTGACCTCCAACCAGGAGTACCTGGACCTGTCCATGCCCTTGACCA
GTACTCCCCCAGCTTTCCCGACACCCGGAGCTCTACGTGCTCCTCAGGGGAGGATTCCGGTCTTCTCTCATGAGCC
GCTGCCCCGAGGAGCCCTGCCTGCCCCGACACCCAGCCAGCTTGCCAATGGCGGACTCAAACGCCGCTGACTGCC
ACCCACACGCCCTCCCCAGACTCCACCGTCAGCTGTAAACCTCACCCACAGCCTGCTGGGCCCCACCACTGTCCG
TCCCTGTCCCCTTTTCTGCTGGCAGGAGCCGGCTGCCTACCAGGGGCCCTTCTGTGTGGCCTGCCTTACCCAC
TCAGCTCACCTCTCCCTCCACCTCCTCTCCACCTGCTGGTGAGAGGTGCAAAGAGGCAGATCTTTGCTGCCAGCC
ACTTCATCCCCTCCCAGATGTTGGACCAACACCCCTCCCTGCCACAGGCACTGCCTGGAGGGCAGGGAGTGGGAG
CCAATGAACAGGCATGCAAGTGAGAGCTTTCTGAGCTTTCTCTGTGCGTTTGGTCTGTTTTGCCTTACCCATA

1822/2825
FIGURE 1624B

AGCCCCCTCGCACTCTGGTGGCAGGTGCTTGTCCCTCAGGGCTACAGCAGTAGGGAGGTCAGTGCTTCGTGCCTCGA
TTGAAGGTGACCTCTGCCCCAGATAGGTGGTGCCAGTGGCTTATTAATTCCGATACTAGTTTGCTTTGCTGACCA
AATGCCTGGTACCAGAGGATGGTGAGGCGAAGGCCAGGTTGGGGGCAGTGTTGTGCCCTGTCCCAGCCCCAACTG
GGGGCTCTGTATATAGCTATGAAGAAAACACAAAGTGTATAAATCTGAGTATATATTTACATGTCTTTTTAAAAG
GGTCGTTACCAGAGATTTACCCATCGGGTAAGATGCTCCTGGTGGCTGGGAGGCATCAGTTGCTATATATTAAAA
ACAAAAAAGAAAAAAGGAAAATGTTTTTAAAAAGGTCATATATTTTTTGCTACTTTTGCTGTTTTATTTTTTT
AAATTATGTTCTAAAC

1823/2825
FIGURE 1625

MWSWKCLLFWAVLVTATLCTARPSPRTLPEQAQPWGAPVEVESFLVHPGDLLQLRCRLRDDVQSINWLRDGVQLAE
SNRTRITGEEVEVQDSVPADSGLYACVTSSPSGSDTTYFSVNVSDALPSSSEDDDDDDSSSEEKETDNTKPNRMP
VAPYWTSPEKMEKKLHAVPAAKTVKFKCPSSGTPNPTLRWLKNGKEFKPDHRIGGYKVRYATWSIIMDSVVP SDK
GNYTCIVENEYGSINHTYQLDVVERSHPRPILQAGLPANKTVALGSNVEFMCKVYSDPQPHIQWLKHIEVNGSKI
GPDNLPYVQILKTAGVNTT DKEMEVLHLRNVSFEDAGEYTCLAGNSIGLSHHSAWLTVLEALEERP AVMTSPLYL
EII IYCTGAFLISCMVGSVIVYKMKSGTKKSDFHSQMAVHKLAKSIPLRRQVTVSADSSASMNSGVLLVRPSRLS
SSGTPMLAGVSEYELPEDPRWELPRDRLVLGKPLGEGCFGQVVLAE AIGLDKDKPNRVTKVAVKMLKSDATEKDL
SDLISEMEMMKMIGKHKNIINLLGACTQDGPLYVIVEYASKGNLREYLQARRPPGLEICYNPSHNP EEQLSSKDL
VSCAYQVARGMEYLASKKCIHRDLAARNVLVTEDNVMKIADFG LARDIHHIDYYKTTNGRLPVKWM APEALFDR
IYTHQSDVWSFGVLLWEIFTLGGSPYPGVPVEELFKLLKEGHRMDKPSNCTNELYMMMRDCWHAVP SQRP TFKQL
VEDLDRIVALTSNQEYLDLSMPLDQYSPSFPDTRSSSTCSSGEDSVFSHEPLPEEPCLPRHPAQLANGGLKRR

1824/2825
FIGURE 1626

TCAGAGTCCGGGCTCAGGCTCCGGGCTGCGGGCTCCAGCCCGCGATGCCCCATTCCGTGACCCTGCGCGGGCCTTCGC
CCTGGGGCTTCCGCCTGGTGGGCGGCCGGGACTTCAGCGCGCCCCTCACCATCTCACGGGTCCATGCTGGCAGCA
AGGCTGCATTGGCTGCCCTGTGCCCAGGAGACCTGATCCAGGCCATCAATGGTGAGAGCACAGAGCTCATGACAC
ACCTGGAGGCACAGAACCGCATCAAGGGCTGCCACGATCACCTCACACTGTCTGTGAGCAGGCCTGAGGGCAGGA
GCTGGCCCAGTGCCCCCTGATGACAGCAAGGCTCAGGCACACAGGATCCACATCGATCCTGAGATCCAGGACGGCA
GCCCCAACAACCAGCAGGCGGCCCTCAGGCACCGGGACTGGGCCAGAAGATGGCAGACCAAGCCTGGGATCTCCAT
ATGGACAACCCCTCGCTTTCCAGTCCCTCACAATGGCAGCAGCGAGGCCACCCTGCCAGCCCAGATGAGCACCC
TGCATGTGTCTCCACCCCCCAGCGCTGACCCAGCCAGAGGCCTCCCGCGGAGCCGGGACTGCAGAGTCGACCTGG
GCTCCGAGGTGTACAGGATGCTGCGGGAGCCAGCCGAGCCCGTGGCCGCGGAGCCCAAGCAGTCAGGCTCCTTCC
GCTACTTGCAGGGCATGCTAGAGGCCGGCGAGGGCGGGGATTGGCCCGGGCCTGGCGGGCCCCCGGAACCTCAAGC
CCACGGCCAGCAAGCTGGGCGCTCCGCTGAGCGGCCTGCAGGGGCTGCCCGAGTGCACGCGCTGCGGCCACGGCA
TCGTGGGCACCATCGTCAAGGCACGGGACAAGCTCTACCATCCCAGTGTTCATGTGCAGTGACTGCGGCCCTGA
ACCTCAAGCAGCGTGGTTACTTCTTTCTGGACGAGCGGCTCTACTGTGAGAGCCACGCCAAGGCGCGCTGAAGC
CGCCCGAGGGCTACGACGTGGTGGCGGTGTACCCCAATGCCAAGGTGGAACCTCGTCTGAGCTGGGACCCTGCTCC
CACGCTGCTTCTTAAGGTCCCTGCTCGGCCGGTGTAAATATGTTTACCCTGTCCCTCTAATAAAGCTCCTCTG
CTCCACCTTGAACCTGTCACCTGGCCTGCCACCCTCCTGCGCAGGCCATGCATGGCTCCCGAGTACAGTAGTATC
TGCTTAGGTGCCAGGCATGTCCTAGGCTCTGGGTGCAGTAGTGAGCAGGACGGGTACCATGCTGCCCTGAAGGGG
CCACAGCCTGGGTGGAAGGCAGACCTGAATCACAACGGGCCAGCTCTAGTAATACGAAGGTGAGGTCTGGGATGC
TGCGTGCGGCGCGACGACAGGAGGTATGACCTGGGTGGGGTTCAGGGAAAGTCTTAGCTGAGAACTAAGAGATGAG
GGAGGCACAACTCTGCACGGGGGAAGTGTGTGTGCAAAGGTGAGCTGGGGGCGAGAAAGGCCTCTGTGGCCGTC
ATCGGCACTAGCGGGTTGGGGGTGGTGGTGGGGTGCTGGCAGCCTCAGGAGCGATCGCTCCCCCTGGAGAGGGTGA
TTGAGTGTGGAGATCACCGGGGCCGCCCGGGCCGTCTGCACTTCTGTTCAGGTTTTTCTGGCATTCTTCTGTTT
CAGGTTTTCTTCCACCCACGAGCACTTTATTCTCCTCCGAGACCCCTTTTTCTTCCCCTTCTCTCTCCCACCAGG
GGGCGCGCTTAAATTTCCAGACAGAGACCAGAAGGAAGGTTTTAGAAAGAAAAGAACACTTGCCCAGGGCAGCTTT
GCCCTCCAAGAGGCTCCCTCCTGTCTCTAAGTCAATTCCACCCCTCCTCGAAGTCCCGGCTTCCACCCCTCTCCT
CAGAGTCCCGGCGTTTTACCTCGTGGTGTGTTTGCCCTGGGCCTTTTCATGCCCCGGCTGCACACATCGTCTGTGAA
TTGTGGCTGTTCACTCCCGAGGATGTGTCCTAGACTCCGGGTGCGGTGGATCTACCCTCTAGTTTACTTGCTCGG
GAGAAGAACTGACTCGTTTTATTTAGTGCCTATTTAGCGAGGCCAGAGTAACGTACATTTGTGCTGTTTTCAAT
TTTGTGCTATCGCAAATCACAAAAAACTGTTATCAATTCACATTCATCATCAGCACGAGACCCATTTCTTGTG
CTCCTGCCAGCTCAGGATATTATGTTTCTTTTTTCATTTTTGCCAGTCTGTTAAGTAAAATGTCATATGCGTTTG
TTTTAA

1825/2825
FIGURE 1627

MPHSVTLRGPSPWGFRLVGGRDFSAPLTISR VHAGSKAALAALCPGDLIQAINGESTELMTHLEAQNRIKGCHDH
LTLSVSRPEGRSWPSAPDDSKAQAHRIHIDPEIQDGSPTTSRRPSGTGTGPEDGRPSLGSPYGQPPRFPVPHNGS
SEATLPAQMSTLHVSPPPSADPARGLPRSRDCRVDLGSEVYRMLREPAEPVAAEPKQSGSFYRLQGMLEAGEGGD
WPGPGGPRNLKPTASKLGAPLSGLQGLPECTRCGHGIVGTIVKARDKLYHPECFCMCSDCGLNLKQRGYFFLDERL
YCESHAKARVKPPEGYDVVAVYPNAKVELV

1826/2825

FIGURE 1628

GCTAACCAGGCCAGTGACAGAAATGGATTTCGAAATACCAGTGTGTGAAGCTGAATGATGGTCACTTCATGCCTGT
CCTGGGATTTGGCACCTATGCGCCTGCAGAGGTTCTTAAAAGTAAAGCTCTAGAGGCCGTCAAATTGGCAATAGA
AGCCGGGTTCCACCATATTGATTCTGCACATGTTTACAATAATGAGGAGCAGGTTGGACTGGCCATCCGAAGCAA
GATTGCAGATGGCAGTGTGAAGAGAGAAGACATATTCTACACTTCAAAGCTTTGGAGCAATTCCCATCGACCAGA
GTTGGTCCGACCAGCCTTGGAAGGTCAGTAAAAATCTTCAATTGGACTATGTTGACCTCTATCTTATTCATTT
TCCAGTGTCTGTAAAGCCAGGTGAGGAAGTGATCCCAAAAGATGAAAATGGAAAAATACTATTTGACACAGTGGA
TCTCTGTGCCACATGGGAGGCCATGGAGAAGTGTAAGATGCAGGATTGGCCAAGTCCATCGGGGTGTCCAACCTT
CAACCACAGGCTGCTGGAGATGATCCTCAACAAGCCAGGGCTCAAGTACAAGCCTGTCTGCAACCAGGTGGAATG
TCATCCTTACTTCAACCAGAGAAAACTGCTGGATTTCTGCAAGTCAAAGACATTGTTCTGGTTGCCTATAGTGC
TCTGGGATCCCATCGAGAAGAACCATGGGTGGACCCGAACTCCCCGGTGCTCTTGGAGGACCCAGTCCCTTGTGC
CTTGGCAAAAAAGCACAAGCGAACCCCAGCCCTGATTGCCCTGCGCTACCAGCTGCAGCGTGGGGTTGTGGTCCT
GGCCAAGAGCTACAATGAGCAGCGCATCAGACAGAACGTGCAGGTGTTTGAATTCCAGTTGACTTCAGAGGAGAT
GAAAGCCATAGATGGCCTAAACAGAAATGTGCGATATTTGACCCTTGATATTTTTGCTGGCCCCCTAATTATCC
ATTTTCTGATGAATATTAACATGGAGGGCATTGCATGAGGTCTGCCAGAAGGCCCTGCGTGTGGATGGTGACACA
GAGGATGGCTCTATGCTGGTGACTGGACACATCGCCTCTGGTTAAATCTCTCCTGCTTGGCGACTTCAGTAAGCT
ACAGCTAAGCCCATCGGCCGAAAAGAAAAGACAATAATTTTGTTTTTTCATTTTGAAAAAATTAAATGCTCTCTCC
TAAAGATTCTTCACCTAATTAAAAAAAAAAAAAAAA
AAAAAAAAAAAAAAAAAAAA

1827/2825
FIGURE 1629

MDSKYQCVKLNDGHFMPVLGFGTYAPAEVPSKSKALEAVKLAIEAGFHHIDSAHVYNNEEQVGLAIRSKIADGSVK
REDIFYTSKLWSNSHRPELVRPALERSLKNLQLDYVDLYLIHFPVSVKPGEEVIPKDENGKILFDTVDLCATWEA
MEKCKDAGLAKSIGVSNFNHRLLEMILNKPGLKYKPVCNQVECHPYFNQRKLLDFCKSKDIVLVAYSALGSHREE
PWVDPNSPVLLEDPVLCALAKKHKRTPALIALRYQLQRGVVVLAKSYNEQRIRQNVQVFEFQLTSEEMKAIDGLN
RNVRYLTLDIFAGPPNYPFSDEY

1828/2825
FIGURE 1630

CACCTCGCTGCTCCAGCCTCTGGGGCGCATTCCAACCTTCCAGCCTGCGACCTGCGGAGAAAAAAATTACTTAT
TTTCTTGCCCCATACATACCTTGAGGCGAGCAAAAAAATTAAATTTTAACC**ATG**AGGGGAAATCGTGACATCCAG
GCTGGTCAGTGTGGCAACCAGATCGGTGCCAAGTTCTGGGAGGTGATCAGTGATGAACATGGCATCGACCCACC
GGCACCTACCACGGGGACAGCGACCTGCAGCTGGACCGCATCTCTGTGTACTACAATGAAGCCACAGGTGGCAAA
TATGTTCCCTCGTGCCATCCTGGTGGATCTAGAACCTGGGACCATGGACTCTGTTGCTCAGGTCCCTTTTGGCCAG
ATCTTTAGACCAGACAACCTTTGTATTTGGTCAGTCTGGGGCAGGTAACAACCTGGGCCAAAGGCCACTACACAGAG
GGCGCCGAGCTGGTTGATTCTGTCTGGATGTGGTACGGAAGGAGGCAGAGAGCTGTGACTGCCTGCAGGGCTTC
CAGCTGACCCACTCACTGGGCGGGGGCACAGGCTCTGGAATGGGCACCTCTCCTTATCAGCAAGATCCGAGAAGAA
TACCCTGATCGCATCATGAATACCTTCAGTGTGGTGCCTTCACCCAAAGTGTCTGACACCGTGGTTCGAGCCCTAC
AATGCCACCTCTCCGTCCATCAGTTGGTAGAGAATACTGATGAGACCTATTGCATTGACAACGAGGCCCTCTAT
GATATCTGCTTCCGCACTCTGAAGCTGACCACACCAACCTACGGGGATCTGAACCACCTTGTCTCAGCCACCATG
AGTGGTGTCAACCACCTGCCTCCGTTTCCCTGGCCAGCTCAATGCTGACCTCCGCAAGTTGGCAGTCAACATGGTC
CCCTTCCCACGTCTCCATTTCTTTATGCCTGGCTTTGCCCTCTCACCAGCCGTGGAAGCCAGCAGTATCGAGCT
CTCACAGTGCCGGAACCTACCCAGCAGGTCTTCGATGCCAAGAACATGATGGCTGCCTGTGACCCCCGCCACGGC
CGATACCTCACCGTGGCTGCTGTCTTCCGTGGTTCGGATGTCCATGAAGGAGGTGATGAGCAGATGCTTAACGTG
CAGAACAAGAACAGCAGCTACTTTGTGGAATGGATCCCCAACAATGTCAAGACAGCCGTCTGTGACATCCCACCT
CGTGGCCTCAAGATGGCAGTCACCTTCATTGGCAATAGCACAGCCATCCAGGAGCTCTTCAAGCGCATCTCGGAG
CAGTTCACTGCCATGTTCCGCCGAAGGCCTTCTCCACTGGTACACAGGCGAGGGCATGGACGAGATGGAGTTC
ACCGAGGCTGAGAGCAACATGAACGACCTCGTCTCTGAGTATCAGCAGTACCAGGATGCCACCGCAGAAGAGGAG
GAGGATTTCCGTGAGGAGGCCGAAGAGGAGGCC**TAA**GGCAGAGCCCCCATCACCTCAGGCTTCTCAGTTCCCTTA
GCCGTCTTACTCAACTGCCCCCTTTCCTCTCCCTCAGAATTTGTGTTTGCTGCCTCTATCTTGTTTTTGTTTTTT
CTTCTGGGGGGGGTCTAGAACAGTGCCTGGCACATAGTAGGCGCTCAATAAATACTTGTTTGTTGAATGTCTCCT
CTCTCTTTCCACTCTGGGAAACCTAGGTTTCTGCCATTCTGGGTGACCCTGTATTTCTTTCTGGTGCCCCATTCCA
TTTGTCCAGTTAATACTTCTCTTAAAAATCTCCAAGAAGCTGGGTCTCCAGATCCCATTTAGAACCAACCAGGT
GCTGAAAACACATGTAGATAATGGCCATCATCTAAGCCCAAAGTAGAAAATGGTAGAAGGTAGTGGGTAGAAGT
CACTATATAAGGAAGGGGATGGGATTTTCCATTCTAAAAGTTTTGGAGAGGGAAATCCAGGCTATTAAAGTCACT
AAATTTCTAAGTATGTCCATTTCCCATCTCAGCTTCAAGGGAGGTGTCAGCAGTATTATCTCCACTTTCAATCTC
CCTCCAAGCTCTACTCTGGAGGAGTCTGTCCCACTCTGTCAAGTGGAATCCTTCCCTTTCCAACCTCTACCTCCCT
CACTCAGCTCCTTTCCCCTGATCAGAGAAAGGGATCAAGGGGGTTGGGAGGGGGGAAAGAGACCAGCCTTGGTCC
CTAAGCCTCCAGAAACGTCTTCTTAATCCCCACCTTTTCTTACTCCCAAAAAGAATGAACACCCCTGACTCTGG
AGTGGTGTATACTGCCACATCAGTGTGTTGAGTCAGTCCCCAGAGGAGAGGGGAACCCCTCCTCCATCTTTTTTGCA
ACATCTCATTTCTTCCTTTTGCTGTTGCTTCCCCCTCACACACTTGGTTTTGTCTATCCTACATTTGAGATTT
CTATTTTATGTTGAACCTTGCTGCTTTTTTTCATATTGAAAAGATGACATCGCCCCAAGAGCCAAAAATAAATGGG
AATTGAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1829/2825
FIGURE 1631

MREIVHIQAGQCGNQIGAKFWEVISDEHGIDPTGTYHGDSDLQLDRISVYYNEATGGKYVPRAILVDLEPGTMDS
VRSGPFGQIFRPDNFVFGQSGAGNNWAKGHYTEGAELVDSVLDVVRKEAESCDCLQGFQLTHSLGGGTGSGMGTL
LISKIREEYPDRIMNTFSVVPSPKVSDTVVEPYNATLSVHQLVENTDETYCIDNEALYDICFRTLKLTTPTYGDL
NHLVSATMSGVTTCLRFPQGQLNADLRKLAVNMVPFRLHFFMPGFAPLTSRGSQQYRALTVPELTQQVFDKNNM
AACDPRHGRYLTVAAVFRGRMSMKEVDEQMLNVQKNSSYFVEWIPNNVKTAVCDIPPRGLKMAVTFIGNSTAIQ
ELFKRISEQFTAMFRRKAFLHWYTGEGMDEMEFTEAESNMNDLVSEYQQYQDATAEEEEEDFGEEAEFEA

1830/2825
FIGURE 1632A

ATGGCGAGCGACTCCCCGGCTCGAAGCCTGGATGAAATAGATCTCTCGGCTCTGAGGGACCCCTGCAGGGATCTTT
GAATTGGTGGAACTTGTGGAAATGGAACATACGGGCAAGTTTATAAGGGTCGTCATGTCAAAAACGGGCCAGCTT
GCAGCCATCAAGGTTATGGATGTACAGGGGATGAAGAGGAAGAAATCAAACAAGAAATTAACATGTTGAAGAAA
TATTCTCATCACCGGAATATTGCTACATACTATGGTGCTTTTATCAAAAAGAACCCACCAGGCATGGATGACCAA
CTTTGGTTGGTGATGGAGTTTTGTGGTGCTGGCTCTGTACCGACCTGATCAAGAACACAAAAGGTAACACGTTG
AAAGAGGAGTGGATTGCATACATCTGCAGGGAAATCTTACGGGGGCTGAGTCACCTGCACCAGCATAAAGTGATT
CATCGAGATATTAAAGGGCAAATGTCTTGCTGACTGAAAATGCAGAAGTTAAACTAGTGGACTTTGGAGTCAGT
GCTCAGCTTGATCGAACAGTGGGCAGGAGGAATACTTTTCATTGGAACCTCCCTACTGGATGGCACCAGAAGTTATT
GCCTGTGATGAAAACCCAGATGCCACATATGATTTCAAGAGTGACTTGTGGTCTTTGGGTATCACCGCCATTGAA
ATGGCAGAAGGTGCTCCCCCTCTCTGTGACATGCACCCCATGAGAGCTCTCTTCCTCATCCCCCGAATCCAGCG
CCTCGGCTGAAGTCTAAGAAGTGGTCAAAAAAATTCCAGTCATTTATTGAGAGCTGCTTGGTAAAGAATCACAGC
CAGCGACCAGCAACAGAACAATTGATGAAGCATCCATTTATACGAGACCAACCTAATGAGCGACAGGTCCGCATT
CAACTCAAGGACCATATTGATAGAACAAGAAGCGAGGAGAAAAAGATGAGACAGAGTATGAGTACAGTGGA
AGTGAGGAAGAAGAGGAGGAGAATGACTCAGGAGAGCCCAGCTCCATCCTGAATCTGCCAGGGGAGTCGACGCTG
CGGAGGGACTTTCTGAGGCTGCAGCTGGCCAACAAGGAGCGTTCTGAGGCCCTACGGAGGCAGCAGCTGGAGCAG
CAGCAGCGGGAGAATGAGGAGCACAAGCGGCAGCTGCTGGCCGAGCGTCAGAAGCGCATCGAGGAGCAGAAAGAG
CAGAGGCGGCGGCTGGAGGAGCAACAAAGGCGAGAGAAGGAGCTGCGGAAGCAGCAGGAGAGGGAGCAGCGCCGG
CACTATGAGGAGCAGATGCGCCGGGAGGAGGAGGAGGCGTGCAGGAGCATGAACAGGAATACATCAGGCGACAG
TTAGAGGAGGAGCAGAGACAGTTAGAGATCTTGACGAGCAGCAGCTACTGCATGAACAAGCTCTACTTCTGGAATAT
AAGCGCAAACAATTGGAAGAACAGAGACAAGCAGAAAGACTGCAGAGGCAGCTAAAGCAAGAAAAGAGACTACTTA
GTTTCCCTTCAGCATCAGCGGCAGGAGCAGAGGCCCTGTGGAGAAGAAGCCACTGTACCATTACAAAGAAGGAATG
AGTCCTAGTGAGAAGCCAGCATGGGCCAAGGAGGTAGAAGAACGGTCAAGGCTCAACCGGCCAAAAGTTCCCTGCC
ATGCCTCACAAGGTTGCCAACAGGATATCTGACCCCAACCTGCCCCCAAGGTCGGAGTCCTTCAGCATTAGTGGA
GTTTCAGCCTGCTCGAACACCCCCCATGCTCAGACCAGTCGATCCCCAGATCCACATCTGGTAGCTGTAAAATCC
CAGGGACCTGCCTTGACCGCTCCCAGTCAGTGCACGAGCAGCCACAAAGGGCCTCTCTGGGTTTCAGGAGGCT
CTGAACGTGACCTCCACCGCGTGGAGATGCCACGCCAGAACTCAGATCCACCTCGGAAAAATCCTCCTCTCCCC
ACTCGCATTGAAAAGTTTGACCGAAGCTCTTGTTACGACAGGAAGAAGACATTCCACCAAAGGTGCCTCAAAGA
ACAACCTTCTATATCCCCAGCATTAGCCAGAAAGAAATCTCCTGGGAATGGTAGTGCTCTGGGACCCAGACTAGGA
TCTCAACCCATCAGAGCAAGCAACCCCTGATCTCCGGAGAAGTGCAGCCATCTTGAGAGAGCCCTTGAGAGGACC
AGCAGTGGCAGTTCTCCAGCTCCAGCACCCCTAGCTCCAGCCCAGCTCCCAAGGAGGCTCCAGCCTGGATCA
CAAGCAGGATCCAGTGAACGCACCCAGAGTTTCAGCCAACAGTAAGTCAGAAGGATCACCTGTGCTTCCCCATGAG
CCTGCCAAGGTGAAACCAGAAGAATCCAGGGACATTACCGGGCCAGTCGACCAGCTAGCTACAAAAAAGCTATA
GATGAGGATCTGACGGCATTAGCCAAAGAACTAAGAGAACTCCGGATTGAAGAAACAAACCGCCCAATGAAGAAG
GTGACTGATTACTCTCTCCTCCAGTGAGGAGTCAGAAAGTAGCGAGGAAGAGGAGGAAGATGGAGAGAGCGAGACC
CATGATGGGACAGTGGCTGTGAGCGACATACCCAGACTGATACCAACAGGAGCTCCAGGCAGCAACGAGCAGTAC
AATGTGGGAATGGTGGGGACGCATGGGCTGGAGACCTCTCATGCGGACAGTTTCAGCGGCAGTATTTCAAGAGAA
GGAACCTTGATGATTAGAGAGACGTCTGGAGAGAAGAAGCGATCTGGCCACAGTGACAGCAATGGCTTTGCTGGC
CACATCAACCTCCCTGACCTGGTGCAGCAGAGCCATTCTCCAGCTGGAACCCCGACTGAGGGACTGGGGCGCGTC
TCAACCCATTCCCAGGAGATGGACTCTGGGACTGAATATGGCATGGGGAGCAGCACCAAAGCCTCCTTCACCCCC
TTTGTGGACCCAGAGTATACCAGACGTCTCCCACTGATGAAGATGAAGAGGATGAGGAATCATCAGCCGCAGCT
CTGTTTACTAGCGAACTTCTTAGGCAAGAACAGGCCAACTCAATGAAGCAAGAAAGATTTCCGGTGGTAAATGTA
AACCCAACCAACATTTCGGCCTCATAGCGACACACCAGAAATCAGAAAATACAAGAAACGATTCAACTCAGAAATA
CTTTGTGACGCTCTGTGGGGTGTAACCTTCTGGTGGGGACTGAAAATGGCCTGATGCTTTTGGACCGAAGTG
CAAGGCAAAGTCTATAATCTGATCAACCGGAGGCGATTTACGAGATGGATGTGCTAGAGGGACTGAATGTCCTT
GTGACAATTTAGGAAAGAAGAATAAGCTACGAGTTTACTATCTTTTCATGGTTAAGAAACAGAATACTACATAAT
GACCCAGAAGTAGAAAAGAACAAGGCTGGATCACTGTTGGGGACTTGGAAGGCTGTATACATTATAAAGTTGTT
AAATATGAAAGGATCAAATTTTTGGTGATTGCCTTAAAGAATGCTGTGGAATATATGCTTGGGCTCCTAAACCG
TATCATAAATTCATGGCATTTAAGTCTTTTGAGATCTCCAGCACAAGCCTCTGCTAGTTGATCTCACGGTAGAA

1831/2825
FIGURE 1632B

GAAGGTCAAAGATTAAAGGTTATTTTTGGTTCACACACTGGTTTCCATGTAATTGATGTTGATTCAGGAAACTCT
TATGATATCTACATACCATCTCATATTCAGGGCAATATCACTCCTCATGCTATTGTCATCTTGCCTAAAACAGAT
GGAATGGAAATGCTTGTTTGCTATGAGGATGAGGGGGTGATGTAAACACCTATGGCCGGATAACTAAGGATGTG
GTGCTCCAATGGGGAGAAATGCCACGTCTGTGGCCTACATTCATTCCAATCAGATAATGGGCTGGGGCGAGAAA
GCTATTGAGATCCGGTCAGTGGAACAGGACATTTGGATGGAGTATTTATGCATAAGCGAGCTCAAAGGTTAAAG
TTTCTATGTGAAAGAAATGATAAGGTATTTTTTGCATCCGTGCGATCTGGAGGAAGTAGCCAAGTGTTTTTCATG
ACCTCAACAGAAATTCCATGATGAACTGGTAA

1832/2825
FIGURE 1633

MASDSPARSLDEIDLSALRDPAGIFELVELVGNNGTYGQVYKGRHVKTGQLAAIKVMDVTGDEEEEEKQEINMLKK
YSHHRNIATYYGAFIKKNPPGMDDQLWLVMFCGAGSVTDLIKNTKGNTLKEEWIAYICREILRGLSHLHQHKVI
HRDIKGQNVLLTENAEVKLVDFGVSAQLDRTVGRNRTFIGTPYWMAPEVIACDENPDATYDFKSDLWSLGITAIE
MAEGAPPLCDMHPMRALFLIPRNPAPRLKSKKWSKKFQSFIESCLVKNHSQRPATEQLMKHPFIRDQPNERQVRI
QLKDHIDRTKKKRGEKDETEYEYSGSEEEEEENDSGEPSSILNLPGESTLRRDFLRLQLANKERSEALRRQQLEQ
QQRENEEHKRQLLAERQKRIEEQKEQRRRLEEQQRRREKELRKQQEREQRRHYEEQMRREEERRRAEHEQEYIRRO
LEEEQRQLEILQQQLLHEQALLLEYKRKQLEEQRQAERLQRQLKQERDYLVSLOHQRQEQRPVEKKPLYHYKEGM
SPSEKPAWAKEVEERSRLNRQSSPAMP HKVANRISDPNLP PRSESF S ISGVQPARTPPMLRPVDPQIPHLVAVKS
QGPALTASQSVHEQPTKGLSGFQEALNVTSHRVEMPRQNSDPTSENPLPTRIEKFDRSSWLRQEEDIPPKVPQR
TTSISPALARKNSPGNGSALGPRLGSQPIRASNPDLRRTEPILESPLQRTSSGSSSSSSSTPSSQPSSQGGSQPGS
QAGSSERTRVRANSKSEGSFVLPHEPAKVKEESRDITRPSRPASYKKAIDEDLTALAKELRELRIEETNRPMKK
VTDYSSSSSEESSESSEEEEEEDGESETHDGTVAVSDIPRLIPTGAPGSNEQYNVGMVGTHGLETSHADSFSGSISRE
GTLMIRETSGEKKRSGHSDSNGFAGHINLPDLVQQSHSPAGTPTTEGLGRVSTHSQEMDSGTEYMGSSSTKASFTP
FVDPRVYQTSPTDEDEDEDEESSAAALFTSELLRQEQA KLNEARKISVVNVNPTNIRPHSDTPEIRKYKKRFNSEI
LCAALWGVNLLVGTENGLMLLDRSGQGVYNLINRRRFQQMDVLEGLNVLVTISGKKNKL RVYYLSWLRNRI LHN
DPEVEKKQG WITVGDLEGCIHYKVVKYERIKFLVIALKNAVEIYAWAPKPYHKFMAFKSFADLQHKPLLVDLTVE
EGQRLKVIFGSHTGFHVIVDSDGNSYDIYIPSHIQGNITPHAIVILPKTDGMEMLVCYEDEGVYVNTYGRITKDV
VLQWGEMPTSVAYIHSNQIMGWGEKAIEIRSVETGHLDGVMHKRAQRLKFLCERNDKVFFASVRSGGSSQVFFM
TLNRNSMMNW

1833/2825
FIGURE 1634

ATGGATATGTTTCCTCTCACCTGGGTTTTCTTAGCCCTCTACTTTTCAAGACACCAAGTGAGAGGCCAACAGAC
CCACCGTGC GGAGGTCGTTTGAATTCCAAAGATGCTGGCTATATCACCTCTCCCGGTTACCCCCAGGACTACCCC
TCCCACCAGAACTGCGAGTGGATTGTTTACGCCCCCGAACCCAACCAGAAGATTGTCCTCAACTTCAACCCCTCAC
TTTGAAATCGAGAAGCACGACTGCAAGTATGACTTTATCGAGATTGGGATGGGGACAGTGAATCCGCAGACCTC
CTGGGCAAACACTGTGGGAACATCGCCCCGCCACCATCATCTCCTCGGGCTCCATGCTCTACATCAAGTTCACC
TCCGACTACGCCCCGGCAGGGGGCAGGCTTCTCTCTGCGCTACGAGATCTTCAAGACAGGCTCTGAAGATTGCTCA
AAAACTTCACAAGCCCCAACGGGACCATCGAATCTCCTGGGTTTCTGAGAAGTATCCACACAACCTGGACTGC
ACCTTTACCATCCTGGCCAAACCCAAGATGGAGATCATCCTGCAGTTCTTGATCTTTGACCTGGAGCATGACCCT
TTGCAGGTGGGAGAGGGGGACTGCAAGTACGATTGGCTGGACATCTGGGATGGCATTCCACATGTTGGCCCCCTG
ATTGGCAAGTACTGTGGGACCAAAACACCCTCTGAACCTCGTTTCATCGACGGGGATCCTCTCCCTGACCTTTCAC
ACGGACATGGCGGTGGCCAAGGATGGCTTCTCTGCGCTTACTACCTGGTCCACCAAGAGCCACTAGAGAACTTT
CAGTGCAATGTTCTCTGGGCATGGAGTCTGGCCGGATTGCTAATGAACAGATCAGTGCCTCATCTACCTACTCT
GATGGGAGGTGGACCCCTCAACAAAGCCGGCTCCATGGTGATGACAATGGCTGGACCCCCAACTTGGATTCCAAC
AAGGAGTATCTCCAGGTGGACCTGCGCTTTTTTAACCATGCTCACGGCCATCGCAACACAGGGAGCGATTTCAGG
GAAACACAGAATGGCTACTACGTCAAATCCTACAAGCTGGAAGTCAGCACTAATGGAGAGGACTGGATGGTGTAC
CGGCATGGCAAAAACCACAAGGTATTTCAAGCCAACAACGATGCAACTGAGGTGGTTCTGAACAAGCTCCACGCT
CCACTGCTGACAAGGTTTGTAGAAATCCGCCCTCAGACCTGGCACTCAGGTATCGCCCTCCGGCTGGAGCTCTTC
GGCTGCCGGGTACAGATGCTCCCTGCTCCAACATGCTGGGGATGCTCTCAGGCCTCATTGCAGACTCCCAGATC
TCCGCTCTTCCACCCAGGAATACCTCTGGAGCCCCAGTGCAGCCCGCCTGGTCAGCAGCCGCTCGGGCTGGTTC
CCTCGAATCCCTCAGGCCAGCCCGGTGAGGAGTGGCTTCAGGTAGATCTGGGAACACCCAAGACAGTGAAAGGT
GTCATCATCCAGGGAGCCCGCGGAGGAGACAGTATCACTGCTGTGGAAGCCAGAGCATTGTGCGCAAGTTCAA
GTCTCTTACAGCCTAAACGGCAAGGACTGGGAATACATTAGGACCCCAGGACCCAGCAGCCAAAGCTGTTTCGAA
GGGAACATGCACTATGACACCCCTGACATCCGAAGGTTTGACCCCCATTCCGGCACAGTATGTGCGGGTATACCCG
GAGAGGTGGTCGCCGGCGGGGATTGGGATGCGGCTGGAGGTGCTGGGCTGTGACTGGACAGACTCCAAGCCCACG
GTAAAAACGCTGGGACCCACTGTGAAGAGCGAAGAGACAACCACCCCTACCCACCGAAGAGGAGGCCACAGAG
TGTGGGGAGAAGTGCAGCTTTGAGGATGACAAAGATTTGCAGCTCCCTTCGGGATTCAATTGCAACTTCGATTT
CTCGAGGAGCCCTGTGGTTGGATGTATGACCATGCCAAGTGGCTCCGGACCACCTGGGCCAGCAGCTCCAGCCCA
AACGACCGGACGTTTCCAGATGACAGGAATTTCTTGCGGCTGCAGAGTGACAGCCAGAGAGAGGGCCAGTATGCC
CGGCTCATCAGCCCCCTGTCCACCTGCCCCGAAGCCGGTGTGCATGGAGTTCCAGTACCAGGCCACGGGCGGC
CGCGGGGTGGCGCTGCAGGTGGTGCGGGAAGCCAGCCAGGAGAGCAAGTTGCTGTGGGTTCATCCGTGAGGACCAG
GGCGGCGAGTGGAAGCACGGGCGGATCATCCTGCCCAGCTACGACATGGAGTACCAGATTGTGTTTCGAGGGAGTG
ATAGGGAAAGGACGTTCCGGAGAGATTGCCATTGATGACATTCGGATAAGCACTGATGTCCCACTGGAGAACTGC
ATGGAACCCATCTCGGCTTTTGCAGTGGACATCCCAGAAATACATGAGAGAGAAGGATATGAAGATGAAATTGAT
GATGAATACGAGGTGGACTGGAGCAATTCTTCTTGCAACCTCAGGGTCTGGCGCCCCCTCGACCGACAAAGAA
AAGAGCTGGCTGTACACCCTGGATCCCATCCTCATCACCATCATCGCCATGAGCTCACTGGGCGTCTCTCTGGGG
GCCACCTGTGCAGGCCTCCTGCTCTACTGCACCTGTTCTACTCGGGCTGAGCTCCCGAAGCTGCACCACACTG
GAGAACTACAACCTCGAGCTCTACGATGGCCTTAAGCACAAAGGTCAAGATGAACCACCAAAAGTGCTGCTCCGAG
GCAT**TGA**

1834/2825
FIGURE 1635

MDMFPLTWVFLALYFSRHQVRGQPDPPCGGRLNSKDAGYITSPGYPDYPSHQNCEWIVYAPEPNQKIVLNFNPH
FEIEKHDCKYDFIEIRDGDSEADLLGKHCGNIAPPTIISSGSMLYIKFTSDYARQGAGFSLRYEIFKTGSEDCS
KNFTSPNGTIESPGFPEKYPHNLDCTFTILAKPKMEIILQFLIFDLEHDPLQVGEGDCKYDWLDIWDGIPHVGPL
IGKYCGTKTPSELRSSTGILSLTFHTDMAVAKDGFSAARYLVHQEPLNFQCNVPLGMESGRIANEQISASSTYS
DGRWTPQQSRLHGDDNGWTPNLDNKEYLQVDLRFLTMLTAIATQGAISRETQNGYYVKSYLEVSTNGEDWMVY
RHGKNHKVFQANNDATEVVLNKLHAPLLTRFVRIRPQTWHSGIALRLELFGCRVTDAPCSNMLGMLSGLIADSQI
SASSTQEYLWSPSAARLVSSRSGWFPRIPQAQPGEEWLQVDLGTPTVKGVIIQGARGGDSITAVEARAFVRKFK
VSYSLNGKDWEYIQDPRTQQPKLFEGNMHYDTPDIRRFDPIPAQYVRVYPERWSPAGIGMRLEVLCGDWTD SKPT
VKTLGPTVKSEETTPYPTTEEATECGENCSFEDDKDLQLPSGFNCNFD FLEPCGWMYDHAKWLRTTWASSSSP
NDRTFPDDRNFRLRLQSDSQREGQYARLISPPVHLPRSPVCMFQYQATGGRGVALQVVREASQESKLLWVIREDO
GGEWKHGRIILPSYDMEYQIVFEGVIGKGRSGEIAIDDIRISTDVPLENCMEPI SAFAVDIPEIHEREGYEDEID
DEYEVDWSNSSSATSGSGAPSTDKEKSWLYTLDPILITIIAMSSLGVLLGATCAGLLLYCTCSYSGLSSRSCTTL
ENYNFELYDGLKHKVKMNHQKCCSEA

1835/2825
FIGURE 1636

GTGCGGGTTTCGGTTGGAGGACTCGTTGGGGAGGTGGCCTGCGCTTGTAGAGACTGCATCCCCGAGACGATGGCG
GAGGGAGATAATCGCAGCACCAACCTGCTGGCTGCAGAGACTGCAAGTCTGGAAGAACAGCTGCAAGGATGGGGA
GAAGTGATGCTGATGGCTGATAAAGTCCTCCGATGGGAAAGAGCCTGGTTTTCCACCTGCCATCATGGGTGTGGTT
TCTTTGGTGTCTTGATTATCTACTATCTAGATCCATCTGTTCTGTCCGGCGTTTCCTGTTTTGTATGTTTTTG
TGCTTGGCTGACTACCTTGTTCCTTCTAGCGCCTAGAATTTTTGGCTCCAATAAATGGACCACTGAACAACAG
CAAAGATTCCATGAAATTTGCAGCAATCTAGTAAAACTCGACGCAGAGCTGTGGGTTGGTGAAACGCCTCTTC
ACACTAAAGGAAGAAAAACCTAAGATGTACTTCATGACCATGATCGTTTCCCTTGCTGCGGTTGCTTGGGTGGGA
CAACAAGTCCACAACCTGCTTCTCACCTACCTGATAGTGACTTCCTTACTATTGCTTCCTGGACTAAACCAACAT
GGAATCATTTTGAAGTACATTGGAATGGCCAAGAGGGAGATAAACAACTTCTCAAACAAAAAGAAAAAGAAAAAC
GAAATGAATTCATCTGCTTTAATCAGTGTGATTAATGCAGCACCCATTGCCCCGGGAACCGTTTCTGCTGTACTATC
TGGATACTAAAATGTTACGGAAGTAGCTCTTGTCTCCCTCACTCTGCCCTTAGTTAATAGAAATTCAGACTCG
CCAAGTAAGGCTTCGTGCATAGTGTCTTCATGTCGCGTATAGTTGAGCGGTTCTTAGCAGTTGGCTTCATGGAC
AACTCATTAGTGTTTTGACTTTTCTTACCCAGCGTTAATTGAATTCCTGCTTTTAGACAACCTTCCTTTTTGTAGT
GGTGAACCTTGCCCTTTAGTACAGTTCAAGTGAATCTGGATAATTGTTTCATCTTTGCTTTAGCTTAGATACCATG
TAGTGGTCTGTGGCTACAGGAAGCTGGTTCTGTCTGCTTCCACAGTCTGCTTAAAAAACTGTCTGACTTCGTGAA
TATAGAGACCAAGTTTACCCTTCTGATGAAGAGACCAATTAAGATTCAATTCCTCATTCTGTTTCTTCCAGTGG
GAGAAGAGTCCCCATGAAATAAGATGAAACTGATTCCATGCACTAGTACATGTAGGCTTCTCCCTTGTGCAAAGC
TTAGCAATTTGTAGGAACTTTGATCTTTTTGTCCAAGAAAAGGAATGTCTGACAGGCTTAAGCTTTTCGTCCCCT
TGCACTTAGACTCGAAGTTAGTAAATCCTTAAAGGCTTTTTAATAGCAGACTTCCAAAAGATTGCATTTAGGATT
TCTAGCATGCTTTTAATTTTCAATTTTCACTGACATTAGCTATAGTATACAGTAGGTTAAGACTCATGTCTATG
ACTTTCACCTCTAAGACTGGCAAAAGGACAGCAGTCTTCTATGTTTAGTCAATATTCATTTTCACTAGAAAGATAATC
TTATCTAATTTTTTGAAGACCAGAATAAGCCTTTTTAAGGTAAACCTCAAAATTATCATTTTTATGGTAATACTGACCA
TTTTAGTCCCCTAGGTTTGACATGGGAGATAGTGACTACACTGGTGTCTGACTTTTTTCTAGAGATTTCTCCCT
GAAAAATACAAGGGCTGTTGGTGAGAGCAGACTTGAGGTGATGATAGTTGGCCTCTGGTCTACAAAGATTTCTATA
ACTCCTTGGAAGCTTCTTATAATCATTCTTAACCTTCTTGGTAGCTAGAAATTTAGAGTAGTTGAAATCTTTAGG
AATGTACTTCTGAGGGCCAAAAAATGTGACTGACGGGAACAATTCTTAACTGATTAAGTACTAGCTGTAATATAGTT
TTGTGAATTTATTGCACTGATGTTGTACCTTGTGGTATATCTGTCCCTATTAAATAAGTGTGTTTTCTCCTCTT
TAATATTGCTGTGAACAGTGGTGCCCATTTGTAGCATATGTTTGATTTTTTTTTATTATTTTATAAGAAAACTACG
TTAATTTTACCTTACTTTTCAATTGTAAATAAGCCTGTCTTCCTATCTGGATTTTTTGTGTGCATACATATTCTACT
GATTAACCTACTTTTGCAGTTTTAATCCTGTATTATTCTTCTACTTTGTTTTGTGTAAAAGGGGAAAAAATAAAA
AAAGCTGGAATCTTCATGTCTC

1836/2825
FIGURE 1637

VRVSVGGLVGEVACACRDCIPETMAEGDNRSTNLLAAETASLEEQLQGWGEVMLMADKVLRWERAWFPPAIMGVV
SLVFLIIYYLDPSVLSGVSCFVMFLCLADYLVPI LAPRIFGSNKWTTEQQQRFHEICSNLVKTRRRAVGWWKRLF
TLKEEKPKMYFMTMIVSLAAVAWVGQVHNLLLTYLIVTSLLLLPGLNQHGIIILKYIGMAKREINKLLKQKEKKN
E

1837/2825
FIGURE 1638

CAGTTGCTTCAGCGTCCCGGTGTGGCTGTGCCGTTGGTCCTGTGCGGTCACTTAGCCAAGATGCCTGAGGAAAACC
CAGACCCAAGACCAACCGATGGAGGAGGAGGAGGTTGAGACGTTTCGCCTTTCAGGCAGAAATTGCCCAGTTGATG
TCATTGATCATCAATACTTTCTACTCGAACAAAGAGATCTTCTGAGAGAGCTCATTTCAAATTCATCAGATGCA
TTGGACAAAAATCCGGTATGAAAGCTTGACAGATCCCGAGTAAATTAGACTCTGGGAAAGAGCTGCATATTAAACCTT
ATACCGAACAAACAAGATCGAACTCTCACTATTGTGGATACTGGAATTGGAATGACCAAGGCTGACTTGATCAAT
AACCTTGGTACTATCGCCAAGTCTGGGACCAAGCGTTCATGGAAGCTTTGCAGGCTGGTGCAGATATCTCTATG
ATTGGCCAGTTCGGTGTTGGTTTTTATTCTGCTTATTTGGTTGCTGAGAAAGTAACTGTGATCACCAAACATAAC
GATGATGAGCAGTACGCTTGGGAGTCTCAGCAGGGGGATCATTACAGTGAGGACAGACACAGGTGAACCTATG
GGTCGTGGAACAAAAGTTATCCTACACCTGAAAGAAGACCAAACTGAGTACTTGGAGGAACGAAGAATAAAGGAG
ATTGTGAAGAAACATTCTCAGTTTATTGGATATCCATTACTCTTTTTGTGGAGAAGGAACGTGATAAAGAAGTA
AGCGATGATGAGGCTGAAGAAAAGGAAGACAAAGAAGAAGAAAAAGAAAAAGAGAAAGAGTCCGAAGACAAA
CCTGAAATTGAAGATGTTGGTTCTGATGAGGAAGAAGAAAAAGAGGATGGTGACAAGAAGAAGAAGAAGATT
AAGGAAAAGTACATCGATCAAGAAGAGCTCAACAAAACAAAGCCCATCTGGACCAGAAATCCCGACGATATTACT
AATGAGGAGTACGGAGAATTCTATAAGAGCTTGACCAATGACTGGGAAGATCACTTGGCAGTGAAGCATTTTTCA
GTTGAAGGACAGTTGGAATTCAGAGCCCTTCTATTTGTCCCACGACGTGCTCCTTTTGATCTGTTTGAAAAACAGA
AAGAAAAAGAACAACATCAAATTGTATGTACGCAGAGTTTTTCATCATGGATAACTGTGAGGAGCTAATCCCTGAA
TATCTGAACTTCATTAGAGGGGTGGTAGACTCGGAGGATCTCCCTCTAAACATATCCCGTGAGATGTTGCAACAA
AGCAAAATTTTGAAAGTTATCAGGAAGAATTTGGTCAAAAAATGCTTAGAACTCTTTACTGAACTGGCGGAAGAT
AAAGAGAACTACAAGAAATTCTATGAGCAGTTCTCTAAAAACATAAAGCTTGGAATACACGAAGACTCTCAAAAT
CGGAAGAAGCTTTCAGAGCTGTTAAGGTACTACACATCTGCCTCTGGTGATGAGATGGTTTTCTCTCAAGGACTAC
TGCACCAGAAATGAAGGAGAACCAGAAACATATCTATTATATCACAGGTGAGACCAAGGACCAGGTAGCTAACTCA
GCCTTTGTGGAACGTCTTCGGAACATGGCTTAGAAGTGATCTATATGATTGAGCCCATTTGATGAGTACTGTGTC
CAACAGCTGAAGGAATTTGAGGGGAAGACTTTAGTGTCAGTCACCAAGAAGGCCTGGAACCTTCAGAGGATGAA
GAAGAGAAAAAGAGCAGGAAGAGAAAAAAACAAAGTTTGAGAACCTCTGCAAAATCATGAAAGACATATTGGAG
AAAAAAGTTGAAAAGGTGGTTGTGTCAAACCGATTGGTGACATCTCCATGCTGTATTGTGACAAGCACATATGGC
TGGACAGCAAACATGGAGAGAATCATGAAAGCTCAAGCCCTAAGAGACAACCTCAACAATGGGTTACATGGCAGCA
AAGAAACACCTGGAGATAAACCTGACCATTCCATTATTGAGACCTTAAGGCAAAGGCAGAGGCTGATAAGAAC
GACAAGTCTGTGAAGGATCTGGTCATCTTGCTTTATGAAACTGCGCTCCTGTCTTCTGGCTTCAGTCTGGAAGAT
CCCCAGACACATGCTAACAGGATCTACAGGATGATCAAACCTGGTCTGGGTATTGATGAAGATGACCCTACTGCT
GATGATACCAGTGCTGCTGTAAGTGAAGAAATGCCACCCCTTGAAGGAGATGACGACACATCACGCATGGAAGAA
GTAGACTTAA

1838/2825
FIGURE 1639

MP EETQTQDQPMEEEEVETFAFQAEIAQLMSLIINTFYSNKEIFLRELISNSSDALDKIRYESLTDPSKLD SGKE
LHINLIPNKQDRTLTIVDTGIGMTKADLINNLGTIAKSGTKAFMEALQAGADISMIGQFGVGFYSAYLVAEKVTV
ITKHNDDEQYAWESSAGGSFTVVRTDTGEPMGRGTKVILHLKEDQTEYLEERRIKEIVKKHSQFIGYPITLFVEKE
RDKEVSDDEAEKEDKEEKEKEEKESEDKPEIEDVGSDEEEKKDGDKKKKKKIKEKYIDQEELNKTPIWTRN
PDDITNEEYGEFYKSLTNDWEDHLAVKHFSVEGQLEFRALLFVPRRAPFDLFENRKKKNNIKLYVRRVFIMDNCE
ELIPEYLNFI RGVVDS EDLPLNISREMLQQSKILKVIRKNLVKKCLELFTELAEDKENYKKFYEQFSKNIKLGIH
EDSQNRKKLSELLRYYTSASGDEMVS LKDYCTRMKENQKHIYYITGETKDQVANS AFVERLRKHGLEVIYMI EPI
DEYCVQQLKEFEFGKTLVSVTKEGLELPEDEEEKKKQEEKKT FENLCKIMKDILEKKVEKV VVSNRLVTSPCCIV
TSTYGWTANMERIMKAQALRDNSTMGYMAAKKHLEINPDHSI IETLRQAEADKNDKSVKDLVILLYETALLSSG
FSLEDPQTHANRIYRMIKLGLGIDEDDPTADDTSAAVTEEMP PLEGGDDDTSRMEEVD

1839/2825
FIGURE 1640

GTGCGGTTGGGAACGCGGAGCGGACGGATTTCGATTCAACGGGGTTCCGGACCGCGCTGCGCTATGGAGCAGGTCA
ATGAGCTGAAGGAGAAAGGCAACAAGGCCCTGAGCGTGGGTAACATCGATGATGCCTTACAGTGCTACTCCGAAG
CTATTAAGCTGGATCCCCACAACCACGTGCTGTACAGCAACCGTTCTGCTGCCTATGCCAAGAAAGGAGACTACC
AGAAGGCTTATGAGGATGGCTGCAAGACTGTGACCTAAAGCCTGACTGGGGCAAGGGCTATTACGAAAAGCAG
CAGCTCTAGAGTTCTTAAACCGCTTTGAAGAAGCCAAGCGAACCTATGAGGAGGGCTTAAACACGAGGCCAAATA
ACCTCAACTGAAAGAGGGTTTACAGAATATGGAGGCCAGGTTGGCAGAGAGAAAATTCATGAACCCCTTTCAACA
TGCCTAATCTGTATCAGAAGTTGGAGAGTGATCCCAGGACAAGGACACTACTCAGTGATCCTACCTACCGGGAGC
TGATAGAGCAGCTACGAAACAAGCCTTCTGACCTGGGCACGAACTACAAGATCCCCGGATCATGACCACTCTCA
GCGTCCTCCTTGGGGTTCGATCTGGGCAGTATGGATGAGGAGGAAGAGATTGCAACACCTCCACCACCACCCCTC
CCAAAAGGAGACCAAGCCAGAGCCAATGGAAGAAGATCTTCCAGAGAATAAGAAGCAGGCACTGAAAGAAAAAG
AGCTGGGGAACGATGCCTACAAGAAGAAAGACTTTGACACAGCCTTGAAGCATTACGACAAAGCCAAGGAGCTGG
ACCCCACTAACATGACTTACATTACCAATCAAGCAGCGGTATACTTTGAAAAGGGCGACTACAATAAGTGCCGGG
AGCTTTGTGAGAAGGCCATTGAAGTGGGGAGAGAAAACCGAGAAGACTATCGACAGATTGCCAAAGCATATGCTC
GAATTGGCAACTCCTACTTCAAAGAAGAAAAGTACAAGGATGCCATCCATTTCTATAACAAGTCTCTGGCAGAGC
ACCGAACCCCGAGATGTGCTCAAGAAATGCCAGCAGGCAGAGAAAATCCTGAAGGAGCAAGAGCGGCTGGCCTACA
TAAACCCCGACCTGGCTTTGGAGGAGAAGAACAAGGCAACGAGTGTTTTTCAGAAAGGGGACTATCCCCAGGCCA
TGAAGCATTATACAGAAGCCATCAAAAGGAACCCGAAAGATGCCAAATTATACAGCAATCGAGCTGCCTGCTACA
CCAAACTCCTGGAGTTCCAGCTGGCACTCAAGGACTGTGAGGAATGTATCCAGCTGGAGCCGACCTTCATCAAGG
GTTATACACGGAAGCCGCTGCGCTGGAAGCGATGAAGGACTACACCAAGCCATGGATGTGTACCAGAAGGCGC
TAGACCTGGACTCCAGCTGTAAGGAGGCGGCAGACGGCTACCAGCGCTGTATGATGGCGCAGTACAACCGGCACG
ACAGCCCCGAAGATGTGAAGCGACGAGCCATGGCCGACCCTGAGGTGCAGCAGATCATGAGTGACCCAGCCATGC
GCCTTATCCTGGAACAGATGCAGAAGGACCCCGAGCACTCAGCGAACACTTAAAGAATCCTGTAATAGCACAGA
AGATCCAGAAGCTGATGGATGTGGGTCTGATTGCAATTCGGTTGATGACTTGTTTCATCCCCCTTCCCTTCGCCCT
CATGTGGAAGAGGAGCTGGGACCGCGGCAGCAGCACGGAGCGGAAGGGAGAGCAGGGGAGAGAAGGCCTCATC
TCTCTATATTTATACATAACCCCGGGGAAGACACAGAGACTCGTACCTGCGCTGTTTGTGCCGCGCTGCCTCTG
GGCCCTCCAGCACACGCATGGTCTCTTACCGCTGCCCTCGAGTTCCATGTCTCTTTCCCTGCCCCCTAGTTGC
TGTCTCGGCTGCTCTCCCATAGTTGGTTTTTTTTTTATTTGGGGCAGTGGGCATGTTATGGGGAGGGGAGGGGT
TCTTCCAGCCTCAGGTCCAGCTGTCTCACGTTGTTTATTCTGCGTCCCCTTCTCCAATAAAACAAGCCAGTTGG
GCGTGGTTATAAC

1840/2825
FIGURE 1641

MEQVNELKEKGNKALSVGNIDDALQCYSEAIKLDPHNHVLYSNRSAAYAKKGDYQKAYEDGCKTVDLKPDWGKGY
SRKAAALEFLNRFEEAKRTYEEGLKHEANNPQLKEGLQNMEARLAERKFMNPFNMPNLYQKLESDPRTTLSDP
TYRELIEQLRNKPSDLGTLQDPRIMTTLSVLLGVDLGSMDEEEEIATPPPPPPPKKETKPEPMEEDLPENKKQA
LKEKELGNDAYKKKDFDTALKHYDKAKELDPTNMTYITNQAAVYFEKGDYNKCRELCEKAIEVGRENREDYRQIA
KAYARIGNSYFKEEKYKDAIHFYNKSLAEHRTPDVLKKCQQA EKILKEQERLAYINPDLALEEKNKGNECFQKGD
YPQAMKHYTEAIKRNPDKAKLYSNRAACYTKLLEFQLALKDCEECIQLEPTFIKGYTRKAAALEAMKDYTKAMDV
YQKALDLDSSCKEAADGYQRCMMAQYNRHDSPEDVKRRAMADPEVQQIMSDPAMRLILEQMOKDPQALSEHLKNP
VIAQKIQKLMDVGLIAIR

1841/2825
FIGURE 1642

AAGCAGTCTCAAGCCTGCCGCAGGGAGAAGATGGCGGTCGCCGTGAGAACTTTGCAGGAACAGCTGGAAAAGGCC
AAAGAGAGTCTTAAGAACGTGGATGAGAACATTTCGCAAGCTCACCGGGCGGGACCCGAATGATGTGAGGCCCCATC
CAAGCCAGATTGCTGGCCCCTTTCTGGTCCTGGTGGAGGTAGAGGACGTGGTAGTTTATTGCTGAGGCGTGATTCTC
TCAGATAGTGGAGGACCCCCAGCCAAACAGAGAGACCTTGAAGGGGCAGTCAGTAGGCTGGGCGGGGAGCGTCGG
ACCAGAAGAGAATCACGCCAGGAAAGCGACCCGGAGGATGATGATGTTAAAAAGCCAGCATTGCAGTCTTCAGTT
GTAGCTACCTCCAAAGAGCGCACACGTAGAGACCTTATCCAGGATCAAAATATGGATGAAAAGGGAAAGCAAAGG
AACCGACGAATATTTGGCTTATTGATGGGCACCTCTTCAGAAATTTAAACAAGAATCCACTGTTGCTACTGAAAGG
CAAAACAGGCGCCAGGAAATTGAACAAAACTTGAAGTGCAGGCGGAAGAAGAAAGAAAGCAGGTTGAAAATGAA
AGGAGAGAACTGTTTGAAGAGAGGCGTGCTAAACAGACAGAAGTGCAGGCTTTTAGAACAGAAGGTTGAGCTTGCG
CAGCTGCAAGAAGAATGGAATGAACATAATGCCAAAATAATTAATATATAAGAACTAAGACAAAGCCCCATTTG
TTTTATATTCCCGGAAGAATGTGTCCAGCTACCCAAAACTAATAGAAGAGTCACAGAGAAAAATGAACGCTTTA
TTTGATGGTAGACGCATCGAATTTGCAGAACAAATAAATAAAATGGAGGCTAGGCCTAGAAGACAATCAATGAAG
GAAAAAGAGCATCAGGTGGTGCCTAATGAAGAACACAAGGCGGAACAAGAAGAGGGTAAGGTGGCTCAGCGAGAG
GAAGAGTTGGTGGAGACAGGTAACCAGCACAAATGATGTTGAAATAGAGGAAGCAGGAGAGGAAGAGGAAAAAGGAA
ATAGGGATTGTTTCATAGTGTGTCAGAGAAAGAGCAGGAGGAGGAGGAACAAAAACAGGAAATGGAGGTTAAGATG
GAGGAGGAAACTGAGGTAAGGGAAAGTGAGAAGCAGCAGGATAGTCAGCCTGAAGAAGTTATGGATGTGCTAGAG
ATGGTTGAGAATGTCAAACATGTAATTGCTGACCAGGAGGTAATGGAACTAATCGAGTTGAAAGTGTAGAACCT
TCAGAAAAATGAAGCTAGCAAAGAATTGGAACCAGAAATGGAATTTGAAATTGAGCCAGATAAAGAATGTAAATCC
CTTTCTCCTGGGAAAGAGAATGTCAGTGCTTTAGACATGGAAAAGGAGTCTGACGAAAAAGAAGAAAAAGAATCT
GAGCCCCAACCTGAGCCTGTGGCTCAACCTCAGGCTCAGTCTCAGCCCCAGCTCCAGCTTCAATCCAGTCCGAG
CCACAGCCTCAGCTACAACCTGAGCCTGCTCAACCTCAGCTTCAGTCTCAGCCCCAGCTTCAGCTTCAATCCAG
TGCCATGCAGTACTCCAGTCCCATCCTCCCTCTCAACCTGAGGATTTGTCTATTAGCTGTTTTACAGCCAACACCC
CAAGTTACTCAGGAGCATGGGCATTTTCTACCTGAGAGGAAGGATTTTCTGTAGAGTCTGTAAACTGACTGAG
GTACCAGTAGACCCAGTCTTGACAGTACATCCAGAGAGCGAGAGCGAAACCAATACTAGGAGCAGGAGTAGAGGT
CGAACTAGAAATAGAACCACCAAGAGTAGAAGTGAAGCAGTAGCAGTAGCAGTTCTAGTAGCAGTTCAACCAGT
AGCAGCAGTGGAAGTAGTTCCAGCAGTGGAAGTAGTAGCAGTCGCAGTAGTTCCAGTAGCAGCTCCAGTACAAGT
GGCAGCAGCAGCAGAGATAGCAGCAGCAGCACTAGTAGTAGTAGTGAGAGTAGAAGTCGGAGTAGGGGCCGGGGA
CATAATAGAGATAGAAAGCACAGAAGGAGCGTGGATCGGAAGAGAAGGGATACTTCAGGACTAGAAAGAAGTCAC
AAATCTTCAAAAGGTGGTAGTAGTAGATACAAAAGGATCAAAGGATAAGAATTCCCGGTCCGACAGAAAGAGG
TCTATATCAGAGAGTAGTCGATCAGGCAAAAGATCTTCAAGAAGTGAAAGAGACCGAAAATCAGACAGGAAAGAC
AAAAGGCGTTAATGGAAGAAGCCAGGCTTTCTTAGCCATTCTTTGCAGCAGAAGATTTCTTGATGAAAAAGGATT
ACCTTTCTTGTAAAGAGGATGCTGCCTTAAGAATTGCATGTTGTAAAAATCTTTTGAAGATACAGACTGTT
TGTTTACCAGACATTCTTGACTTTTTGCATAATTTTGTAAGAGTTATTTATCAAATATGTGAGGTTCCAAAA
TATGTAAAAATGATAATAATAAAAAAGATTAACATCCCTTGTCATCTTTTTTAAATATCCTATACTCTTCAGTA
AGAATCTGTATATTTTAATAGGCAAATCTTTAAGTCTGTTCCCTTCAATTCTGTATCATACATTGCT

1842/2825
FIGURE 1643

MAVAVRTLQEQLKAKESLKNVDENIRKLTGRDPNDVRFIQARLLALSGPGGGRGRGSLLLRRGFSDSGGPPAKQ
RDLEGAVSRLGGERRTRRESRQESDPEDDDVKKPALQSSVVATSKERTRRDLIQDQNMDEKKGQRNRRIFGLLMG
TLQKFKESTVATERQNRREQIEQKLEVQAEEERKQVENERRELFEERRAKQTELRLLLEQKVELAQLQEEWNEHN
AKIIKYIRTKTKPHLFYIPGRMCPATQKLIIESQRKMNALFDGRRIEFAEQINKMEARPRRQSMKEKEHQVVRNE
EHKAEQEEGKVAQREELVETGNQHNDVEIEEAGEEEEEKEIGIVHSDAEKEQEEEEQKQEMEVKMEETEVRERE
KQQDSQP EEVMDVLEMVENVKHVIADQEV METNRVESVEPSENEASKELEPEMEFEIEPDKECKSLSPGKENVSA
LDMEKESDEKEEKESEPQPEPVAQPQAQSQPQLQLQSQSEPQPQLQPEPAQPQLQSQPQLQLQSQCHAVLQSHPP
SQPEDLSLAVLQPTPQVTQEHGHFLPERKDFPVESVKLTEVPVDPVLTVHPESSEETNTRSRSRGRTRNRRTTKSR
SRSSSSSSSSSSSTSSSSGSSSSSGSSSSSRSSSSSSSSSTSGSSSRDSSSTSSSSSESRSRSRGRGHNDRKHRRS
VDRKRRDTSGLERSHKSSKGGSSRDTKGSKDKNSRSDRKRSISESSRSGKRSSRSEDRKSDRKDKRR

1843/2825
FIGURE 1644

GCCGCTCGCTCGGCTCCGCTCCCTGGCTCGGCTCCCTGCCTCCGCGTCGCAGCCCCGCCGTAGCCGCCTCCGAG
CCCCGCCCCACATCCTCTGAGAAGATGGCTGTGCCACCCACGTATGCCGATCTTGGCAAATCTGCCAGGGATGTC
TTCACCAAGGGCTATGGATTTGGCTTAATAAAGCTTGATTTGAAAACAAAATCTGAGAATGGATTGGAATTTACA
AGCTCAGGCTCAGCCAACACTGAGACCACCAAAGTGACGGGCAGTCTGGAAACCAAGTACAGATGGACTGAGTAC
GGCCTGACGTTTACAGAGAAATGGAATACCGACAATACACTAGGCACCGAGATTACTGTGGAAGATCAGCTTGCA
CGTGGACTGAAGCTGACCTTCGATTTCCTTCTCACCTAACACTGGGAAAAAAAAATGCTAAAATCAAGACAGGG
TACAAGCGGGAGCACATTAACCTGGGCTGCGACATGGATTTGACATTGCTGGGCCTTCCATCCGGGGTGCTCTG
GTGCTAGGTTACGAGGGCTGGCTGGCCGGCTACCAGATGAATTTTGAGACTGCAAAATCCCGAGTGACCCAGAGC
AACTTTGCAGTTGGCTACAAGACTGATGAATTCAGCTTCACACTAATGTGAATGACGGGACAGAGTTTGGCGGC
TCCATTTACCAGAAAGTGAACAAGAAGTTGGAGACCGCTGTCAATCTTGCCTGGACAGCAGGAAACAGTAACACG
CGCTTCGGAATAGCAGCCAAGTATCAGATTGACCCTGACGCCTGCTTCTCGGCTAAAGTGAACAACCTCCAGCCTG
ATAGGTTTAGGATACACTCAGACTCTAAAGCCAGGTATTAAGTACACTGTCAGCTCTTCTGGATGGCAAGAAC
GTCAATGCTGGTGGCCACAAGCTTGGTCTAGGACTGGAATTTCAAGCATAAATGAATACTGTACAATTGTTTAAAT
TTTAAACTATTTTGCAGCATAGCTACCTTCAGAATTTAGTGTATCTTTTAAATGTTGTATGTCTGGGATGCAAGTA
TTGCTAAATATGTTAGCCCTCCAGGTTAAAGTTGATTCAGCTTTAAGATGTTACCCTTCCAGAGGTACAGAAGAA
ACCTATTTCCAAAAAAGGTCCCTTTCAGTGGTAGACTCGGGGAGAACTTGGTGGCCCCCTTTGAGATGCCAGGTTTC
TTTTTTATCTAGAAATGGCTGCAAGTGGAAGCGGATAATATGTAGGCACCTTGTAAATTCATATTGAGTAAATGA
ATGAAATTGTGATTTCTGAGAATCGAACCTTGGTTCCCTAACCTAATTGATGAGAGGCTCGCTGCTTGATGGT
GTGTACAAACTCACCTGAATGGGACTTTTTTTAGACAGATCTTCATGACCTGTTCCCACCCAGTTCATCATCATC
TCTTTTACACCAAAAGGTCTGCAGGGTGTGGTAACTGTTTCTTTTGCCATTTTGGGGTGGAGAAGGTGGATGT
GATGAAGCCAATAATTCAGGACTTATTCCTTCTTGTGTTGTGTTTTTTTTTGGCCCTTGCACCAGAGTATGAAAT
AGCTTCCAGGAGCTCCAGCTATAAGCTTGGAAGTGTCTGTGTGATTGTAATCACATGGTGACAACACTCAGAATC
TAAATTGGACTTCTGTTGTATTCTCACCCTCAATTTGTTTTTTAGCAGTTTAAATGGGTACATTTTAGAGTCTTC
CATTTTGTGGAATTAGATCCTCCCCTTCAAATGCTGTAATTAACAACACTTAAAAAAGTTGAATAAAATATTGA
AACCTC

1844/2825
FIGURE 1645

MAVPPTYADLGKSARDVFTKGYGFGLIKLDLKTSENGLEFTSSGSANTETTKVTGSLETKYRWTEYGLTFTEKW
NTDNTLGTEITVEDQLARGLKLTFDSSFSPTNGKKNAIKTGyKREHINLGCDMDFDIAGPSIRGALVLYEGWL
AGYQMNFFETAKSRVTQSNFAVGyKTDEFQLHTNVNDGTEFGGSiYQKVNKKLETAVNLAWTAGNSNTRFGIAAKY
QIDPDACFSAKVNNSSLIGLYTQTLKPGIKLTLsALLDGKNVNAGGHKLGLGLEFQA

1845/2825
FIGURE 1646

GGCACGAGGGGGAAGCAGGGGTAGCGGAGCCATGGGGGACGCTCCCAGCCCTGAAGAGAACTGCACCTTATCAC
CCGGAACCTGCAGGAGGTTCTGGGGGAAGAGAAGCTGAAAGGAGATACTGAAGGAGCGGGAACTTAAATTTACTG
GGGAACGGCAACCACGGGCAAACCACATGTGGCTTACTTTGTGCCCATGTCAAAGATTGCAGACTTCTTAAAGGC
AGGGTGTGAGGTAACAATTCTGTTTGC GGACCTCCACGCATACCTGGATAACATGAAAGCCCCATGGGAACCTTCT
AGA ACTCCGAGTCAGTTACTATGAGAATGTGATCAAAGCAATGCTGGAGAGCATTGGTGTGCCCTTGGAGAAGCT
CAAGTTCATCAAAGGCACTGATTACCAGCTCAGCAAAGAGTACACACTAGATGTGTACAGACTCTCCTCCGTGGT
CACACAGCACGATTCCAAGAAGGCTGGAGCTGAGGTGGTAAAGCAGGTGGAGCACCTTTGCTGAGTGCCCTCTT
ATACCCCGGACTGCAGGCTTTGGATGAAGAGTATTTAAAGTAGATGCCCAATTTGGAGGCATTGATCAGAGAAA
GATTTTCACCTTTGCAGAGAAGTACCTCCCTGCACTTGGCTATTCAAACGGGTCCATCTGATGAATCCTATGGT
TCCAGGATTAACAGGCAGCAAAATGAGCTCTTCAGAAGAGGAGTCCAAGATTGATCTCCTTGATCGGAAGGAGGA
TGTGAAGAAAAAACTGAAGAAGGCCTTCTGTGAGCCAGGAAATGTGGAGAACAATGGGGTTCTGTCTTTCATCAA
GCATGTCTTTTTCCCTTAAGTCCGAGTTTGTGATCCTACGAGATGAGAAATGGGGTGGAAACAAAACCTACAC
AGCTTACGTGGACCTGGAAAAGGACTTTGCTGCTGAGGTTGTACATCCTGGAGACCTGAAGAATTCTGTTGAAGT
CGCACTGAACAAGTTGCTGGATCCAATCCGGGAAAAGTTAATACCCCTGCCCTGAAAAAACTGGCCAGCGCTGC
CTACCCAGATCCCTCAAAGCAGAAGCCAATGGCCAAAAGGCCCTGCCAAGAATTCAGAACCAGAGGAGGTATCCC
ATCCCGGCTGGATATCCGTGTGGGAAAATCATCACTGTGGAGAAGCACCCAGATGCAGACAGCCTGTATGTAGA
GAAGATTGACGTGGGGGAAGCTGAACCACGGAAGTGTGGTGAGCGGCCTGGTACAGTTCTGTGCCCAAGGAGGAACT
GCAGGACAGGCTGGTAGTGGTGTGTGCAACCTGAAAACCCAGAAAGATGAGAGGAGTCGAGTCCCAAGGCATGCT
TCTGTGTGCTTCTATAGAAGGGATAAACCGCCAGGTTGAACCTCTGGACCCTCCGGCAGGCTCTGCTCCTGGTGA
GCACGTGTTTGTGAAGGGCTATGAAAAGGGCCAACCAGATGAGGAGCTCAAGCCCAAGAAGAAAGTCTTCGAGAA
GTTGCAGGCTGACTTCAAATTTCTGAGGAGTGCATCGCACAGTGGAAGCAAACCAACTTCATGACCAAGCTGGG
CTCCATTTCTGTAAATCGCTGAAAGGGGGGAACATTAGCTAGCCAGCCAGCATCTTCCCCCTTCTTCCACCA
CTGAGTCATCTGCTGTCTCTTCAGTCTGCTCCATCCATCACCCATTTACCCATCTCTCAGGACACGGAAGCAGCG
GGTTTGGACTCTTTATTCTGGTGCAGAACTCGGCAAGGGGCAGCTTACCCTCCCAGAACCCAGGATCATCCTGTC
TGGCTGCAGTGAGAGACCAACCCCTAACAAGGGCTGGGCCACAGCAGGGAGTCCAGCCCTACCTTCTTCCCTTGG
CAGCTGGAGAAAATCTGGTTTCAATATAACTCATTTAAAAATTTATGCCACAGTCCTTATAATTGGAAAAATACTG
GTGCCCAGGTTTTCTTGGAGTTATCCAAGCAGCTGCGCCCCTAGCTGGGATCTGGTACCTGGACTAGGCTAATTA
CAGCTTCTCCCCAACAGGAACTGTGGGATTTGAAAAGGAAAGGGAAGGGAACAGAGAACCTAGTGGTCTACC
AAGTGGTTGGCAACTTTCCCAATGTCTGCTTACTCTGAGGCTTGGCACTGGGGGCCAGGGCCTGCCCCAGGGCTC
CTGGAATTTCCCTTGATCCAGCTAGGCTGGGACACTCCCTAAATCAGCTGCGTGTTGTTAGCATCAGGCAGAAATG
AATGGCAGAGAGTGATTCTGTCTTCATAGAGGGTGGGGTACTTCTCCATAAGGCATCTCAGTCAAATCCCCATCA
CTGTCATAAATTCAAATAAAATGTCTGAACAAGGGAAAAA

1846/2825
FIGURE 1647

MGDAPSP EEKLHLITRNLQEVLGEEKLKEILKERELKIYWG TATTGKPHVAYFVPMSKIADFLKAGCEVTILFAD
LHAYLDNMKAPWELLELRVSY YENVIKAMLESIGVPLEKLF IKGTDYQLSKEYTLDVYRLSSVVTQHDSKKAGA
E VVKQVEHPLL SGLLYPGLQALDEEYLKVDAQFGGIDQRKIFTFAEKYLPALGYSKRVHLMNPMVPGLTGSKMSS
SEEESKIDLLDRKEDVKKKLKKAFC EPGNVENNGVLSFIKHVLFPLKSEFVILRDEKWGGNKTYTAYVDLEKDFA
AEVVHPGDLKNSVEVALNKLLDPIREKFNTPALKKLASAAYPDPSKQKPMAGPAKNSEPEEVIPSRLDIRVGKI
ITVEKH PDADSLYVEKIDVGEAEPR TVVSGLVQFVPKEELQDRLVVVLCNLKPQKMRGVESQGMLLCASIEGINR
QVEPLDPPAGSAPGEHV FVKGYEKGQPDEELKPKKKVFEKLQADFKI SEECIAQWKQTNFMTKLGSISCKSLKGG
NIS

1847/2825
FIGURE 1648A

GC GGCGGGCGCGAGGCAGTATGGTTTGAAGTGGTGAACATGGATTTTTCTCGGCTTCACATGTACAGTCCTCCCCA
GTGTGTGCCGGAGAACACGGGCTACACGTATGCGCTCAGTTCCAGCTATTCTTCAGATGCTCTGGATTTTGAGAC
GGAGCACAAATTGGACCCTGTATTTGATTCTCCACGGATGTCCCGCCGTAGTTTGC GCCTGGCCACGACAGCATG
CACCCTGGGGGATGGTGAGGCTGTGGGTGCCGACAGCGGCACCAGCAGCGCTGTCTCCCTGAAGAACCGAGCGGC
CAGAACAACAAAACAGCGCAGAAGCACAAACAAATCAGCTTTTAGTATCAACCACGTGTCAAGGCAGGTACAGTC
CTCTGGCGTCAGCTACGGCGGCAGTGTACGCTGCAGGATGCTGTGACTCGACGGCCTCCTGTATTGGACGAGTC
TTGGATTCTGTGAACAGACCACAGTGGACCCTTCTGGGGTCTTGATGATGATGGTGATCTTAAAGGTGGAAATAA
AGCTGCCATTACAGGGAACGGGGATGTGGGAGTCGCCGCCGCCACCGCGCACAAACGGCTTCTCCTGCAGCAACTG
CAGCATGCTGTCCGAGCGCAAGGACGTGCTCACGGCGCACCCCGCGGCCCGGGCCCGTGTGAGAGTTTATTC
TAGGGACAGGAATCAAAAATGCGACGACTGTAAGGGCAAGAGGCACCTCGACGCGCACCCCGGTGCGGCAGGGAC
CCTCTGGCACATCTGGGCATGTGCAGGTTACTTCTTGCTGCAGATTCTGCGCAGGATCGGAGCTGTGGGCCAGGC
TGTGTCCAGGACGGCGTGGTCCGCCCTTTGGCTGGCCGTGGTTGCTCCAGGAAGGCAGCCTCTGGAGTGTTCTG
GTGGCTGGGGATTGGATGGTACCAGTTTGTACTTTGATTTCTTGCTGAATGTGTTTCTTCTTACCAGGTGCCT
TCGAAACATCTGCAAGTTTTTAGTCTTGCTCATCCCACTCTTCTTTTACTAGCAGGTCTCTCCTTACGGGGCCA
GGGCAATTTCTTTTCGTTCTTGCCCGTGTGAACTGGGCAAGCATGCATAGAACACAGCGGGTGGATGACCCCCA
GGACGTGTTTAAACCCACGACTTCTCGCCTGAAGCAGCCTCTGCAGGGTGACAGTGAGGCTTTTCCGTGGCATTG
GATGAGTGGCGTGGAGCAGCAGGTGGCCTCTCTGTCTGGACAGTGCCACCACCATGGTGAGAATCTCCGAGAGCT
GACCACTTTGCTACAGAAGCTGCAGGCTCGGGTGGACCAGATGGAAGGCGGCGCTGCCGGGCCGTACGCTTCGGT
CAGAGACGCTGTGGGACAGCCCCGAGGGAGACTGACTTTATGGCCTTTTACCAAGAACATGAAGTGCGTATGTC
ACACTTGGAAGATATTCTGGGAAAACAGAGAAAAATCTGAGGCCATCCAGAAGGAACATAGAACAGACCAAGCA
AAAAACAATCAGTGCGGTTGGTGAGCAGCTCCTGCCACAGTCGAGCACCTCCAGCTGGAGCTGGATCAGCTAAA
GTCAGAGCTGTCCAGCTGGCGACACGTGAAGACCGGCTGTGAGACAGTGGATGCCGTACAAGAAAGAGTGGACGT
GCAAGTCAGAGAAATGGTGAACTCCTGTTTTCCGAAGATCAGCAAGGCGGTTCTCTGGAACAGCTGCTGCAGAG
GTTCTCATCAGTTTTGTGAGCAAAGGCGACTTGACAGCAGATGCTGCGAGACCTGCAGCTGCAGATCCTGCGGAA
CGTCACCCACCACGTTTCCGTGACCAAGCAGCTCCCAACCTCAGAAGCCGTGGTGTCTGCTGTGAGCGAGGCGGG
GGCGTCTGGAATAACAGAGGCGCAAGCACGTGCCATCGTGAACAGCGCCTTGAAGCTGTATTCCCAAGATAAGAC
CGGGATGGTGGACTTTGCTCTGGAATCTGGTGGTGGCAGCATCTTGAGTACTCGCTGTTCTGAAACTTACGAAAC
CAAAACGGCGCTGATGAGTCTGTTTGGGATCCCGCTGTGGTACTTCTCGCAGTCCCCGCGCGTGGTCAATCCAGCC
TGACATTTACCCCGGTAACCTGCTGGGCATTTAAAGGCTCCCAGGGGTACCTGGTGGTGAGGCTCTCCATGATGAT
CCACCCAGCCGCCTTCACTCTGGAGCACATCCCTAAGACGCTGTCGCCAACAGGCAACATCAGCAGCGCCCCCAA
GGACTTCGCCGTCTATGGATTAGAAAATGAGTATCAGGAAGAAGGGCAGCTTCTGGGACAGTTCACGTATGATCA
GGATGGGGAGTCGCTCCAGATGTTCCAGGCCCTGAAAAGACCCGACGACACAGCTTTCCAAATAGTGGAACTTCG
GATTTTTTCTAACTGGGGCCATCCTGAGTATACCTGTCTGTATCGGTTTCAAGATTATGGCGAACCTGTCAAGTG
AAGACACTACTCATTATTTTTGTACATTTTTGTATATACTGGGACAGCGTGAAACACTGGAATCCTTCATGGACG
AGGGCATATACAATGATGGGACAGTGCCACACTCCTTCAATAAACGTGGCTGCTGGCCAGAGGACGTGAGCGTGT
GACGGGCGCCTTGGCGCCACCTGTTGGGTGCTCACTGCCTCTGCAGGTGCAGAGGGGTGAGCAGCAGGAGAAGCG
TGTTGAACACGTGGCTCTCAGACACTCCTTGTTTTTAACGGGAAGCTCTTTCATTTGCATTTTCTCAACAAAGG
AGCAAAAGCAGAGGAAGCTGAGAGTCTGGCGTGTCTTGACGCTTTGGTCTTCAGCCTTGCAGTGGCTCTTCTAAA
GGACTTTTGGAGGGCAGATAATTTTCATCTGTTAAATCCAACACACATTTCTTTTACGGGAAAAACAATGTCACCAA
ATTTTCAGAGTTCTAAACTCCTTTTCTTCAAGCCGGAATTTTCTTTTTCAGCACCAGTAGGTACTAAGTCTCC
AGATGGGGAAATAACTAAAATGTGTTTTTCTGCTTTGTTTCGCTCTTACTTCTGAGGAAGGTTTCCAGTCAGGACT
CGCTGTACCAATATCCATGGAGGAATATGGGAGCGTTTCGCTCTCCTTGTAGGCTGAAGTCAGTCTGACTTGAAG
GGGCCTGGTTTGGATCTAAGCAAACACCCAGATGGGGTCTCTGGTCTCAGCAAGGCTTTTCTGTTGGGAGTCA
CAGTAAACAGAAACCCAAAATCTCATCTTGGGTGTTTTTACGGGCTTGTTTTGAGTTTTGCTGAATAGGGAGCGC
AAGACGCCCTGAGCCTCCCTCTCACTGGTGGTGATAAGAGGAGCCGTCTGGTGTGTGAGGGTACGAACCCGTTA
CATTTACAGGACGATCCTTTTTCTTTCAGCAGCATTTCTTACTGGCTGTGGCTGGAATCTGCCTTTTATCAGCT
GTCACCATTTCTACGTGATTCTTGTGAGACTCTTTTTGGTTATAATTACTATTTAATATTTAGACTATTTTACTG
AGCAGACTTTATAAATGAGATATCTACAAGGCACCTAAAGTGTTACAGATGTTTTACCTTAAGAATTATTTAAGT

1848/2825
FIGURE 1648B

TGTGTTGGGTTAAGACAGTTTTTCAGTGTACCGTAAATGTTGTGTTTTTCAGAAAAAGACAAAACGATGGTGCTGAC
TGGTTTTCTGTATATTGCACAACAGTCCTCAAATACACTGATGTATGAAACTATTCATACATCAAGCAGCATTTT
TTTCACTCTCCTTAGAATTGGAACATATGCAGTTAAGGCAGATAAAATGTACAGATGTTTCATATATTACAGGTTA
CATATATAAATCAAAATTTCTATATAAACTGATTTGGGATTTGGGGTGGAATATTTTGAATATTAATTTATT
TTTAAAGATGCAAGATAGGACTTTGTGCAATGTATTTTTGTAAATGCTTTTCAAATATCTGCTTTGGTAGTGC
TTCTGCTGCTGCCACCAAATTGATAAGATGCTATTAAGAGGTTTAAATAAAGAGTTTAAATTTTTAAAGGG

1849/2825
FIGURE 1649

ACTGCTCTCAGTGAGAAGCGCACGCTGGAGGGCGAGCTGCATGATCTGCGGGGCCAGGTGGCCAAGCTTGAGGCA
GCCCTAGGTGAGGCCAAGAAGCAACTTCAGGATGAGATGCTGCGGCGGGTGGATGCTGAGAACAGGCTGCAGACC
ATGAAGGAGGAACTGGACTTCCAGAAGAACATCTACAGTGAGGAGCTGCGTGAGACCAAGCGCCGTCATGAGACC
CGACTGGTGGAGATTGACAATGGGAAGCAGCGTGAGTTTGAGAGCCGGCTGGCGGATGCGCTGCAGGAAGTGGG
GCCCAGCATGAGGACCAGGTGGAGCAGTATAAGAAGGAGCTGGAGAAGACTTATTCTGCCAAGCTGGACAATGCC
AGGCAGTCTGCTGAGAGGAACAGCAACCTGGTGGGGGCTGCCCACGAGGAGCTGCAGCAGTCGCGCATCCGCATC
GACAGCCTCTCTGCCCAGCTCAGCCAGCTCCAGAAGCAGCTGGCAGCCAAGGAGGCGAAGCTTCGAGACCTGGAG
GACTCACTGGCCCGTGAGCGGGACACCAGCCGGCGGCTGCTGGCGGAAAAGGAGCGGGAGATGGCCGAGATGCGG
GCAAGGATGCAGCAGCAGCTGGACGAGTACCAGGAGCTTCTGGACATCAAGCTGGCCCTGGACATGGAGATCCAC
GCCTACCGCAAGCTCTTGAGGGGCGAGGAGGAGAGGCTACGCCTGTCCCCAGCCCTACCTCGCAGCGCAGCCGT
GGCCGTGCTTCCTCTCACTCATCCCAGACACAGGGTGGGGGCGAGCGTCACCAAAAAGCGCAAAGCTGGAGTCCACT
GAGAGCCGCAGCAGCTTCTCAGCAGCAGCAGCACTAGCGGGCGCGTGGCCGTGGAGGAGGTGGATGAGGAGGGC
AAGTTTGTCCGGCTGCGCAACAAGTCCAATGAGGACCAGTCCATGGGCAATTGGCAGATCAAGCGCCAGAATGGA
GATGATCCCTTGCTGACTTACCGGTTCCCACCAAAGTTACCCCTGAAGGCTGGGCAGGTGGTGACGATCTGGGCT
GCAGGAGCTGGGGGCCACCCACAGCCCCCTACCGACCTGGTGTGGAAGGCACAGAACACCTGGGGCTGCGGGAAC
AGCCTGCGTACGGCTCTCATCAACTCCACTGGGGAAGAAGTGGCCATGCGCAAGCTGGTGCGCTCAGTGACTGTG
GTTGAGGACGACGAGGATGAGGATGAGATGACCTGCTCCATCACCACCACGGCTCCCCTGCAGCAGCTCGGGG
GACCCCGCTGAGTACAACCTGCGCTCGCGCACCGTGCTGTGCGGGACCTGCGGGCAGCCTGCCGACAAGGCATCT
GCCAGCGGCTCAGGAGCCCAGGTGGGCGGACCCATCTCCTCTGGCTCTTCTGCCTCCAGTGTCACGGTCACTCGC
AGCTACCGCAGTGTGGGGGGCAGTGGGGGTGGCAGCTTCGGGGACAATCTGGTACCCGCTCCTACCTCCTGGGC
AACTCCAGCCCCCGAAGCCAGAGCCCCCAGAACTGCAGCATCATGTAATCTGGGACCTGCCAGGCAGGGGTGGGG
GTGGAGGCTTCCTGCGTCCTCCTCACCTCATGCCCACCCCTGCCCTGCACGTCATGGGAGGGGGCTTGAAGCCA
AAGAAAAATAACCCTTTGTTTTTTTTCTTCTGTATTTTTTTTTTCTAAGAGAAGTTATTTTCTACAGTGGTTTTAT
ACTGAAGGAAAAACACAAGCAAAAAAAAAAAAAAAAAAGCATCTATCTCATCTATCTCAATCCTAATTTCTCCTCCCT
TCCTTTTCCCTGCTTCCAGGAACTCCACATCTGCCTTAAACCAAAGAGGGCTTCCTCTAGAAGCCAAGGGAAA
GGGGTGCTTTTATAGAGGCTAGCTTCTGCTTTTCTGCCCTGGCTGCTGCCCCACCCCGGGGACCCCTGTGACATGG
TGCCTGAGAGGCAGGCATAGAGGCTTCTCCGCCAGCCTCCTCTGGACGGCAGGCTCACTGCCAGGCCAGCCTCCG
AGAGGGAGAGAGAGAGAGAGAGAGGACAGCTTGAGCCGGGCCCCCTGGCTTGGCCTGCTGTGATTCCACTACACCTGG
CTGAGGTTCCCTCTGCCTGCCCCGCCCCAGTCCCCACCCCTGCCCCAGCCCCGGGGTGAGTCCATTCTCCCAGG
TACCAGCTGCGCTTGCTTTTCTGTATTTTATTTAGACAAGAGATGGGAATGAGGTGGGAGGTGGAAGAAGGGAGA
AGAAAGGTGAGTTTGAGCTGCCTTCCCTAGCTTTAGACCCTGGGTGGGCTCTGTGCAGTCACTGGAGGTTGAAGC
CAAGTGGGGTGCTGGGAGGAGGGAGAGGGAGGTCACTGGAAAGGGGAGAGCCTGCTGCACCCACCGTGGAGGAGG
AAGGCAAGAGGGGTGGAGGGGTGTGGCAGTTGGTTTTGGCAAACGCTTAAAGAGCCCTTGCTCCTCCCATTTCCC
ATCTGCACCCCTTCTCTCCTCCCCAAATCAATACACTAGTTGTTTCT

1850/2825
FIGURE 1650A

CACTCTGGCTGGGAGCAGAAGGCAGCCTCGGTCTCTGGGCGGCGGCGGCCCTCTCTGCCCTGGCCGCGCTGT
GTGGTGACCGCAGGCCCGAGACATGAGGGCGGCCCGTGCTCTGCTGCCCCTGCTGCTGCAGGCCTGCTGGACAGC
CGCGCAGGATGAGCCGGAGACCCGAGGGCCGTGGCCTTCCAGGACTGCCCCGTGGACCTGTTCTTTGTGCTGGA
CACCTCTGAGAGCGTGGCCCTGAGGCTGAAGCCCTACGGGGCCCTCGTGGACAAAGTCAAGTCCTTACCAAGCG
CTTCATCGACAACCTGAGGGACAGGTACTACCGCTGTGACCGAAACCTGGTGTGGAACGCAGGCGCGCTGCACTA
CAGTGACGAGGTGGAGATCATCCAAGGCCTCACGCGCATGCCTGGCGGCCGCGACGCACTCAAAGCAGCGTGGA
CGCGGTCAAGTACTTTGGGAAGGGCACCTACACCGACTGCGCTATCAAGAAGGGGCTGGAGCAGCTCCTCGTGGG
GGGCTCCCACCTGAAGGAGAATAAGTACCTGATTGTGGTGACCGACGGGCACCCCTGGAGGGCTACAAGGAACC
CTGTGGGGGGCTGGAGGATGCTGTGAACGAGGCCAAGCACCTGGGCGTCAAAGTCTTCTCGGTGGCCATCACACC
CGACCACCTGGAGCCGCGTCTGAGCATCATCGCCACGGACCACACGTACCGGCGCAACTTCACGGCGGCTGACTG
GGGCCAGAGCCGCGACGCAGAGGAGGCCATCAGCCAGACCATCGACACCATCGTGGACATGATCAAAAATAACGT
TGAGCAAGTGTGCTGCTCCTTCGAATGCCAGCCTGCAAGAGGACCTCCGGGCTCCGGGCGACCCCGGCTTTGA
GGGAGAACGAGGCAAGCCGGGGCTCCCAGGAGAGAAGGGAGAAGCCGGAGATCCTGGAAGACCCGGGGACCTCGG
ACCTGTTGGGTACCAGGGAATGAAGGGAGAAAAAGGGAGCCGTGGGGAGAAGGGCTCCAGGGGACCAAAGGGCTA
CAAGGGAGAGAAGGGCAAGCGTGGCATCGACGGGGTGGACGGCGTGAAGGGGGAGATGGGGTACCCAGGCCTGCC
AGGCTGCAAGGGCTCGCCGGGTTTTGACGGCATTCAAGGACCCCTGGCCCCAAGGGAGACCCCGGCGCCTTTGG
ACTGAAAGGAGAAAAAGGGCGAGCCTGGAGCTGACGGGGAGGCCGGGAGACCAGGAGCTCGGGGACCATCTGGAGA
CGAGGGGCCAGCCGGAGAGCCTGGGCCCCCGGAGAGAAAAGGAGAGGCGGGCGACGAGGGGAACCCAGGACCTGA
CGGTGCCCCCGGGGAGCGGGGTGGCCCTGGAGAGAGAGGACCACGGGGGACCCAGGCCCGCGGGGACCAAGAGG
AGACCTTGGTGAAGCTGGCCCGCAGGGTGATCAGGGAAGAGAAGGGCCCGTTGGTGTCCCTGGAGACCCGGGCGA
GGCTGGCCCTATCGGACCTAAAGGCTACCGAGGCGATGAGGGTCCCCAGGGTCCGAGGGTGCCAGAGGAGCCCC
AGGACCTGCCCGACCCCTGGAGACCCGGGGCTGATGGGAGAAAAGGGGAGAAGACGGCCCCGCTGGAAATGGCAC
CGAGGGCTTCCCCGGCTTCCCCGGGTATCCCCGGAACAGGGGCGCTCCCGGGATAAACGGCACGAAGGGCTACCC
CGGCCTCAAGGGGGACGAGGGAGAAGCCGGGGACCCCGGAGACGATAACAACGACATTGCACCCCGAGGAGTCAA
AGGAGCAAAGGGGTACCGGGGTCCCAGGGGCCCCAGGGACCCCGAGGACACCAAGGACCGCCTGGGCCGGACGA
ATGCGAGATTTTGACATCATCATGAAAATGTGCTCTTGCTGTGAATGCAAGTGGGCCCCATCGACCTCCTGTT
CGTGCTGGACAGCTCAGAGAGCATTGGCCTGCAGAACTTCGAGATTGCCAAGGACTTCGTCTGTAAGGTATCGA
CCGGCTGAGCCGGGACGAGCTGGTCAAGTTCGAGCCAGGGCAGTCGTACGCGGGTGTGGTGCAGTACAGCCACAG
CCAGATGCAGGAGCACGTGAGCCTGCGCAGCCCCAGCATCCGGAACGTGCAGGAGCTCAAGGAAGCCATCAAGAG
CCTGCAGTGGATGGCGGGCGGCACCTTCACGGGGGAGGCCCTGCAGTACACGCGGGACCACTGCTGCCGCCAG
CCCGAACAACCGCATCGCCCTGGTCACTGACGGGCGCTCAGACACTCAGAGGGACACCACACCGCTCAACGT
GCTCTGCAGCCCCGGCATCCAGGTGGTCTCCGTGGGCATCAAAGACGTGTTTGACTTCATCCAGGCTCAGACCA
GCTCAATGTCAATTTCTTGCCAAGGCCTGGCACCATCCAGGGCCGGCCCGGCTCTCGCTGGTCAAGGAGAACTA
TGCAGAGCTGCTGGAGGATGCCTTCCTGAAGAATGTACCCGCCAGATCTGCATAGACAAGAAGTGTCCAGATTA
CACCTGCCCCATCACGTTCTCCTCCCCGGCTGACATCACCATCCTGCTGGACGGCTCCGCCAGCGTGGGCAGCCA
CAACTTTGACACCACCAAGCGCTTCGCCAAGCGCCTGGCCGAGCGCTTCCTCACAGCGGGCAGGACGGACCCCGC
CCACGACGTGCGGGTGGCGGTGGTGCAGTACAGCGGCACGGGCCAGCAGCGCCAGAGCGGGCGTGCCTGCAGTT
CCTGCAGAACTACACGGCCCTGGCCAGTGCCGTGATGCCATGGACTTTATCAACGACGCCACCGACGTCAACGA
TGCCCTGGGCTATGTGACCCGCTTCTACCGCGAGGCCTCGTCCGGCGCTGCCAAGAAGAGGCTGCTGCTCTTCTC
AGATGGCAACTCGCAGGGCGCCACGCCCCGCTGCCATCGAGAAGGCCGTGCAGGAAGCCCAGCGGGCAGGCATCGA
GATCTTCGTGGTGGTCTGTGGGCCGCCAGGTGAATGAGCCCCACATCCGCGTCTGGTACCCGGCAAGACGGCCGA
GTACGACGTGGCCTACGGCGAGAGCCACCTGTTCCGTGTCCCCAGCTACCAGGCCCTGCTCCGCGGTGTCTTCCA
CCAGACAGTCTCCAGGAAGGTGGCGCTGGGCTAGCCACCCCTGCACGCCGGCACCAAACCTGTCTCTCCACCCC
TCCCCACTCATCACTAAACAGAGCCCAAGCTTGAAAGCCAGGACACAACGCTGCTGCCTGCTTTGTGCAGGGTC
CTCCGGGGCTCAGCCCTGAGTTGGCATCACCTGCGCAGGGCCCTCTGGGGCTCAGCTCTGAGCTAGTGTACCTG
CACAGGGCCCTCTGAGGCTCAGCCCTGAGCTGGCGTCACCTGTGCAGGGCCCTCTGGGGCTCAGCCCTGAGCTGG
CCTCACCTGGGTTCCCCACCCGGGCTCTCCTGCCCTGCCCTCCTGCCCGCCCTCCCTCCTGCCTGCGCAGCTCC
TTCCCTAGGCACCTCTGTGCTGCATCCACCAGCCTGAGCAAGACGCCTCTCGGGGCTGTGCCGCACTAGCCTC

1851/2825
FIGURE 1650B

CCTCTCCTCTGTCCCATAGCTGGTTTTTCCCACCAATCCTCACCTAACAGTTACTTTACAATTAAACTCAAAGC
AAGCTCTTCTCCTCAGCTTGGGGCAGCCATTGGCCTCTGTCTCGTTTTTGGGAAACCAAGGTCAGGAGGCCGTTGC
AGACATAAATCTCGGCGACTCGGCCCCGTCTCCTGAGGGTCCTGCTGGTGACCGGCCTGGACCTTGGCCCTACAG
CCCTGGAGGCCGCTGCTGACCAGCACTGACCCCGACCTCAGAGAGTACTCGCAGGGGCGCTGGCTGCACTCAAGA
CCCTCGAGATTAAACGGTGCTAACCCCGTCTGCTCCTCCCTCCCGCAGAGACTGGGGCCTGGACTGGACATGAGAG
CCCCTTGGTGCCACAGAGGGCTGTGTCTTACTAGAAACAACGCAAACCTCTCCTTCCTCAGAATAGTGATGTGTT
CGACGTTTTATCAAAGGCCCCCTTTCTATGTTTCATGTTAGTTTTTGCTCCTTCTGTGTTTTTTTCTGAACCATATC
CATGTTGCTGACTTTTCCAATAAAGGTTTTCACCTCCTC

1852/2825
FIGURE 1651

MRAARALLP LLLQACWTAAQDEPETPRAVAFQDCPVDLFFVLDTSSESVALRLKPYGALVDKVKSF TKRFIDNLRD
RYYRCDRNLVWNAGALHYSDEVEIIQGLTRMPGGRDALKSSVDAVKYFGKGT YTDCAIKKGLEQLLVGGSHLKEN
KYLIVVTDGHPL EGYKEPCGGLED AVNEAKHLGVKVFSVAITPDHLEPRLSIIATDHTYRRNFTAADWGQSRDAE
EAI SQTIDTIVDMIKNNVEQVCCSFECQPARGPPGLRGDPGFEGERGKPLPGEKGEAGDPGRPGDLGPVGYQGM
KGEKGSRG EKGSRGPKGYKGEKGRGIDGVDGVKGEMGYPLPGCKGSPGFDGIQGP PGPKGDPGAFGLKGEKGE
PGADGEAGRPGARGPSGDEGPAGEPGPPGEKGEAGDEGNPGPDGAPGERGGPGERGPRGTPGPRGPRGDPGEAGP
QGDQGREGFPVGP GDPGEAGPIGPKGYRGDEGPPGSEGARGAPGPAGPPGDPGLMGERGEDGPAGNGTEGFPGF
GYPGNRGAPGINGTKGYPLKGDEGEAGDPGDDNNDIAPRGVKGAKGYRGPEGPQGPPGHQGP PGPDCEILDII
MKMCSCECKCGPIDLLFVLDSSSEIGLQNF EIAKDFVVKVIDRLSRDELVKFEPGQSYAGVVQYSHSQMQEHVS
LRSPSIRNVQELKEAIKSLQWMAGGTFTGEALQYTRDQLLPPSPNNRIALVITDGRSDTQRD TTPLNVLCSPGIQ
VVSVGIKDVDFIPGSDQLNVISCQGLAPSQGRPGLSLVKENYAE LLEDAFLKNVTAQICIDKKCPDYTCPI TFS
SPADITILLDGSASVGSNFD TTKRFAKRLAERFLTAGRTPAHDVRVAVVQYSGTGQQRPERASLQFLQNYTAL
ASAVDAMDFINDATDVNDALGYVTRFYREASSGA AKRLLLFSDGNSQGATPAAIEKAVQEAQRAGIEIFVVVVG
RQVNEPHIRVLVTGKTAEYDVAYGESHLFRVPSYQALLRGVFHQTVSRKVALG

1853/2825
FIGURE 1652

TTTAAATGTCATCATCATAGTCTTTTAATATTTTACATAAAAAAACTGTATACACAGCTTATAGAACTTTTATGTA
AACATCATAAGCTCACCATTTTGTCAATTTGTCAGTTTATTTAAAAAATAAAAAACAAGACAACAATTTAGTAGAA
GTACCACTGGGAGGGTGGGGAGGGGAAAAAAGGATATACAGGGGCAGGTGTATTCTCTGTACAGAGGTGCAGAGA
AAATTTACATAGCTTTAGAGAATGCCTTGTGGAAAAAAAAAAAAATAGGCCCAATACTTGTTACTGCCCTTTA
TCAAACTGTGTGCATGACCTGCACAAATAAAATCACAAACAGTGTGCCACATTCTTCAAGGAAACAAAGCAA
AATTTAGTGGGTTTCTTTTCCCTCTCCTTGTTAAAAGTCATTTTTTAAAAACATCAGAAGTAGATGAGGTTACAG
CGTACAAGTGTGGTCAGAATGCTACTGTCGTATGC

1854/2825
FIGURE 1653

GGCGCGCGGCGAGCTGAGGGTGGCGGCGGTGCGACATGTTCCAGGTCCCGGATAGCGAGGGCGGCCGCGCCGGCTC
CAGGGCCATGAAGCCCCCAGGAGGAGAATCGAGCAATCTTTTTGGAAAGTCCAGAAGAAGCCACTCCTTCCAGCAG
GCCTAATAGGATGGCATCTAATATTTTTGGACCAACAGAAGAACCTCAGAACATACCCAAGAGGACAAATCCCCC
AGGGGGTAAAGGAAGTGGTATCTTTGACGAATCAACCCCCGTGCAGACTCGACAGCACCTGAACCCACCTGGAGG
GAAGACCAGCGACATTTTTGGGTCTCCGGTCACTGCCACTTCACGCTTGGCACACCCAAACAAACCCAAGGATCA
TGTTTTCTTATGTGAAGGAGAAGAACC AAAATCGGATCTTAAAGCTGCAAGGAGCATCCCGGCTGGAGCAGAGCC
AGGTGAGAAAGGCAGCGCCAGAAAAGCAGGCCCCGCCAAGGAGCAGGAGCCCATGCCACAGTCGACAGCCATGA
GCCCCGGCTGGGGCCGCGGCCCTCGCTCTCACAACAAGGTCTGAACCCACCGGGAGGCAAATCCAGCATCTCCTT
CTACTTAAGAGAAGCCACTGCTCCACCCGGAGCCAGACCAGAAACTCAAGAGATAGGGTAGCCATGTTTTTCATTTT
CTTTTGCCCAAATGAGCGGGGTGGGAAGAGGGTTAGTCTTATGTGAGCCTGGCTGCTCAGCGTCTCCTGGCCGTC
ATGACAGCTGCTTGGAGACCCGTGCCTTCCAGATGGCTGGGAGATGCCTCTGTGGGGATGAAATGGGGCACCCCT
GGCCATCACTCATGTGTAGTCCAGGTTTGAGAGGAAGTGAAGGGGGGTGAGGGTGGGGAGGTGGGGCAGGGCAT
GGTCCTTGGATCAACAGCCCGCCAGCTGATTGGATGTCTAGGAATGACTGAAAGAAACCAAACAGCCTGTCCAC
TGCTGCTGTGGGATGGAGGAGGCGTAAGCAGAAACACTAACAGTATATTGACCTCTTAGCAGAACCCTTCCATT
CTGGAGATCACGGCTGCTAAATCCAGCATCCCCACTTCATTTTACCCCCAGCATATTGTTCTGTAGTCTTTTTCTT
GAAACATCTTGATTGCTTTTCTCGGCAGCTTTCAAAAAACCAAATAATAATAGTTATCCGTCTTCTACTTCATG
GAAGATTGTTTTGGTGCCCTGACCCTCTGAAGTGCCAGTTCCTGCCATCTGAAACCTCGGCCTGATCTGATCTC
ATGTTGGAATCTGCCTGTCTTTACACAGGGCTGGTCTTGGTCCCTTACATGCCAGTTTTGCTTGTGAATTCTTG
CTTTTTTCTCTCATCAGCCTTAAGTTTAGGCGTTTGTTGTTCTCCAGTGATGTAGACAGTTCCCTTACAAAGTC
ACAGTTCTTCCCATAAATGAGGCCCGCTGACCTCTGCGGGACTTTAAAAATCTATTAGATATTTCCGAGTAAGT
GGCTTGTTTAAATTTCTTCTGTGTCTTTCTTTATTCTTAATTGGTTGGTGAAAGAAGAGATGCTTGGGAACCT
TGGGTTCTTAGGTTTGATTCTTTAATAATATCTAAAAAGCTAAATTTTAAATACCAGCTTTACATAAATGATTG
TTGACTCTGGTCTGTTTCTGACACCTTTCCAGAAAAAAGTCAATTGTTAGGTACACCAAAGAGGAAGAAGAGCT
GTGGAGGCCACCTCTACAAAGCTTTATAGAAGTCTGGATCTAACTCACAACAAGCTTCCAGAAGAGACTAGA
GACCTTAGGCCAGGAGATGAAGGAGTTCAGTAGCAAAGTCACACCTGTCCAATTCCCTGAGCTTTGCTCACTCAG
CTAATGGGATGGCAAAGGTGGTGGTGCTTTTATCTTCAGGCAGAAGCCTCTGCCCATCCCCCTCAAGGGCTGCAG
GCCCAGTTCTCATGCTGCCCTTGGGTGGGCATCTGTTAACAGAGGAGAACGTCTGGGTGGCGGCAGCAGCTTTGC
TCTGAGTGCTTACAAAGCTAATGCTTGGTGCTAGAAACATCATCATTATTAACTTCAGAAAAGCAGCAGCCATG
TTCAGTCAGGCTCATGCTGCCCTCACTGCTTAAGTGCTGCAGGAGCCGCTGCCAAGCTCCCCCTTCTACACCTG
GCACACTGGGGTCTGCACAAGGCTTTGTCAACCAAAGACAGCTTCCCCCTTTTGATTGCCTGTAGACTTTGGAGC
CAAGAAACACTCTGTGTGACTCTACACACACTTCAGGTGGTTTGTGCTTCAAAGTCATTGATGCAACTTGAAAGG
AAACAGTTTAAATGGTGGAATGAAGTACCATTTATAACTTCTGTTTTTTTATTGAGAAAATGATTACGAATTCC
AAATCAGATTGCCAGGAAGAAATAGGACGTGACGGTACTGGGCCCTGTGATTCTCCAGCCCTTGCAGTCCGCTA
GGTGAGAGGAAAAGCTCTTTACTTCCGCCCCCTGGCAGGGACTTCTGGGTTATGGGAGAAACCAGAGATGGGAATG
AGGAAAATATGAACTACAGCAGAAGCCCCCTGGGCAGCTGTGATGGAGCCCCCTGACATTACTCTTCTTGCATCTGT
CCTGCCTTCTTTCCCTCTGCGAGGCAGTGGGGTGGGATTGAGAGTGCTTAGTCTGCTCACTGGGAGAAGAAGAGT
TCCTGCGCATGCAAGCCCTGCTGTGTGGCTGTGTTTTACATTTGGGAGGTGTCCTGTATGTCTGTACGTTGGGGA
CTGCCTGTATTTGGAAGATTTAAAAACCTAGCATCCTGTTCTCACCCCTTAAGCTGCATTGAGAAATGACTCGTC
TCTGTATTTGTATTAAAGCCTTAACACTTTTCTTAAGTGCAATTCGGTGCCAACATTTTTTAGAGCTGTACCAAAAAC
AAAAAGCCTGTACTCACATCACAATGTCAATTTTGATAGGAGCGTTTTGTTATTTTTTACAAGGCAGAATGGGGTGT
AACAGTTGAATTAACTAGCAATCACGTGCTCAGAGCTTT

1855/2825
FIGURE 1654

MFQVPDSEGGRAGSRAMKPPGGESSNLFGSPEEATPSSRPNRMASNIFGPTEEPQNIPKRTNPPGGKSGIFDES
TPVQTRQHNLNPPGGKTSDFGSPVTATSRLAHPNPKPDHVFLCEGEEPKSDLKAARSIPAGAEFGEKGSARKAGP
AKEQEPMPTVDSHEPRLGPRPRSHNKVLNPPGGKSSISFY

1856/2825
FIGURE 1655

GTTTTACGCTGCCGCCGGCATCCGCTCGGACGCGGCCACGTTGTCTTGCGCGCTTTGCCCCGCTGGCCCTGGGAC
TCTGACCCCTCGGCTACCCCTTTCTGCCCCACTAGCGTGCCCGCGAGCCTCGGTGAGCCGGCCGATTCCCGCTCT
CGCTTAGGGGGCACAGGCGCAGGCATCGGCCCGGCCACTCCAAGCCTTCGGTGCGCGGGCGCGTCTGGGATACGG
GCCCCGGAGGCGCCGCCCTCCGTCCGCCCGGTGCTCTCAGGAACAGCGAACC GGAGAGAGCGCCGGAGAGTTGG
GCTCAGTGCGGAGCTCGGCGCCGGGGCCCCATGCCCCGTGCGCCCCCGCAGGCCGGCGCCATGCCCTCCGGGAGTGT
GGCCGAGTGCTGCAGCAGGAGACCACCTGCCCCGTGTGCCTGCAGTACTTCGCAGAGCCCATGATGCTCGACTG
CGGCCATAACATCTGTTGCGCGTGCCTCGCCCGCTGCTGGGGCACGGCAGAGACTAACGTGTCTGTGCCCGCAGTG
CCGGGAGACCTTCCCGCAGAGGCACATGCGGCCCAACCGGCACCTGGCCAACGTGACCCAACTGGTAAAGCAGCT
GCGCACCGAGCGGCCGTGCGGGCCCCGGCGCGAGATGGGCGTGTGCGAGAAGCACCGCGAGCCCCCTGAAGCTGTA
CTGCGAGGAGGACCAGATGCCCATCTGCGTGGTGTGCGACCGCTCCCGCGAGCACCGCGGCCACAGCGTGCTGCC
GCTCGAGGAGGCGGTGGAGGGCTTCAAGGAGCAAATCCAGAACCAGCTCGACCATTTAAAAAGAGTGAAAAGATTT
AAAGAAGAGACGTCGGGCCCCAGGGGGAACAGGCACGAGCTGAACTCTTGAGCCTAACCCAGATGGAGAGGGAGAA
GATTGTTTGGGAGTTTGAGCAGCTGTATCACTCCTTAAAGGAGCATGAGTATCGCCTCCTGGCCCGCCTTGAGGA
GCTAGACTTGGCCATCTACAATAGCATCAATGGTGCCATCACCCAGTTCTCTTGCAACATCTCCACCTCAGCAG
CCTGATCGCTCAGCTAGAAGAGAAGCAGCAGCAGCCCCACCAGGGAGCTCCTGCAGGACATTGGGGACACATTGAG
CAGGGCTGAAAGAATCAGGATTCTGAACCTTGGATCACACCTCCAGATTTGCAAGAGAAAAATCCACATTTTTTGC
CCAAAAATGTCTATTCTTGACGGAGAGTCTAAAGCAGTTCACAGAAAAATGCAGTCAGATATGGAGAAAAATCCA
AGAAATTAAGAGAGGCTCAGTTATACTCAGTGAGCTGACTCTGGACCCAGACACGGCCTACCCACGCTGATCCT
CTCTGATAATCTGCGGCAAGTGCGGTACAGTTACCTCCAACAGGACCTGCCTGACAACCCCGAGAGGTTCAATCT
GTTTCCCTGTGTCTTGGGCTCTCCATGCTTCATCGCCGGGAGACATTATTGGGAGGTAGAGGTGGGAGATAAAGC
CAAGTGGACCATAGGTGTCTGTGAAGACTCAGTGTGCAGAAAAGGTGGAGTAACCTCAGCCCCCAGAATGGATT
CTGGGCAGTGTCTTTGTGGTATGGGAAAGAATATTGGGCTCTTACCTCCCCAATGACTGCCCTACCCCTGCGGAC
CCCGCTCCAGCGGGTGGGGATTTTCTTGACTATGATGCTGGTGAGGTCTCCTTCTACAACGTGACAGAGAGGTG
TCACACCTTCACTTTCTCTCATGCTACCTTTTGTGGGCTGTCCGGCCCTACTTCAGTCTGAGTTACTCGGGAGG
GAAAAGTGCAGCTCCTCTGATCATCTGCCCCATGAGTGGGATAGATGGGTTTTCTGGCCATGTTGGGAATCATGG
TCATTCCATGGAGACCTCCCTTTGAGGAGGTGAATTCAGGCCAAAAGGGCTGTTGGCTGTAATCCTACGCCAGGC
ACAAGGCATCTTGTTGCCTTGCCACGTCTGTACAGCTGGGTATCCTTACCATGTTCCACGCCCTTGCAGTGGG
AGACAGGATGTCCATGTTCTCTACCATCCTTTTCTTCCCATGCAGATTGTGAAATGTAATGAGATGTATCAAGA
CATCCTAGAAATAAAAACCAGATGTCCACCTCCAGTGTTTCATACTTTCTGGTTTTACACATCGCTGGAGGGATA
AAGAGTATGGATAATCTTTGGATTTGGAGAGCCGTTCAAGATACTTCCAGCTTCTTGGCTCAGCCTGGCTTCCTC
TGGTTCAGCCCCACATAATGATTATGGCTATTTGCTGTCATTTCTGGGCTAGGGCTCCTTTCTAACAACCTAGAC
TGGAATAAGGCCCTGTGAGCATGGCTCCCTTTATCCAGTTTTCCGTCTGGGAACAGTACCTCTGCCCCGTGATT
CCAATGTGCCATAGTTTTATTAACCTCATTAAAGAAGCCTGTATGTGTTTTGGTTAGTTACAGTTATTTTACAAT
AATGGTGGGTAATGGCCCCACCTCTGTTATGAGATAATGTTCTAATCAATGTCTCTGCCTTTGTATCTTTTCTGA
GGGCTTTGTCTGTTCTCTTCAATGAAAGGTGATTCTAGTGCTGGGTGCATATCATCCAGGATAATATTC
TGCCCAACTCCATCCTCTGTTACTAGATCCCTTACCAGTCACATTTGTGGACTGGTGGCCAGTCGTATACCATCC
CTGGAAGGATTCTGGGACAATATTCCAGGGATTCAATTGACTTCTTGGCTCCTTTTCTCCATTTCTTTGGGGGAA
GGGGGAATTGACCATGCTTAAGTGCATCCTATCAAGGGGCAGCTCCGTCCCCATGGCCATTGGATCATGAGACAC
TCGAAGTCAGAAGGCTGGGGCAGATCACTTCAAGCAAGCCCCCATGATGGTTCTCAGTCCTGCTTCTGTGGGT
ACGTGCCCCCTCTGTTTAAAAATAAACTGAATATGGATGTTTAAAAAAAAAAAAAAAAAAAA

1857/2825

FIGURE 1656

MASGSVAECLQQETTCPVCLQYFAEPMMLDCGHNICCACLARCWGTAETNVSCPQCRETFPQRHMRPNRHLANVT
QLVKQLRTERPSGPGGEMGVCEKHREPLKLYCEEDQMPICVVCDRSREHRGHSVLPLEEAVEGFKEQIQNQLDHL
KRVKDLKKRRRAQGEQARAELLSLTQMEREKIVWEFEQLYHSLKEHEYRLRLARLEELDLAIYNSINGAITQFSCN
ISHLSSLIAQLEEKQQQPTRELLQDIGDTLSRAERIRIPEPWITPPDLQEKIHIFAQKCLFLTESLKQFTEKMQS
DMEKIQELREAQLYSVDVTLDPDYTAYPSLILSDNLRQVRYSYLQQDLDPNPERFNLFPVGLGSPCFIAGRHYWEV
EVGDKAKWTIGVCEDSVCRKGGVTSAPQNGFWAVSLWYGKEYWALTSPMTALPLRTPLQRVGIFLDYDAGEVSFY
NVTERCHTFTFSHATFCGPVRPYFSLSYSGGKSAAPLIICPMSGIDGFSGHVGNHGHSMETSP

1858/2825
FIGURE 1657

CGAGGATTCAGCAGCCTCCCCCTTGAGCCCCCTCGCTTCCCGACGTTCCGTTCCCCCCTGCCCGCCTTCTCCCGC
CACCGCCGCCGCCGCTTCCGCAGGCCGTTTCCACCGAGGAAAAGGAATCGTATCGTATGTCCGCTATCCAGAAC
CTCCACTCTTTTCGACCCCTTTTGCTGATGCAAGTAAGGGTGATGACCTGCTTCCTGCTGGCACTGAGGATTATGTC
CATATAAGAATTCAACAGAGAAACGGCAGGAAGACCCCTTACTACTGTCCAAGGGATCGCTGATGATTACGATAAA
AAGAACTAGTGAAGCCGTTTAAAGAAAAGTTTGCCCTGCAATGGTACTGTAATTGAGCATCCGGAATATGGAGAA
GTAATTCAGCTACAGGGTGACCAACGCAAGAACATATGCCAGTTCCTCGTAGAGATTGGACTGGCTAAGGACGAT
CAGCTGAAGGTTTCATGGGTTTTTAAGTGCTTGTGGCTCACTGAAGCTTAAGTGAGGATTTCTTGCAATGAGTAGA
ATTTCCCTTCTCTCCCTTGTCACAGGTTTAAAAACCTCACAGCTTGTATAATGTAACCATTTGGGGTCCGCTTTT
AACTTGGACTAGTGTAACCTCCTTCATGCAATAAACTGAAAAGAGCCATGCTGTCTAGTCTTGAAGTCCCTCATT
AAACAGAGGTCAAGCAATAGGCGCCTGGCAGTGTCAGCCTGAAACCAAGCAATACCGTCATGTTTCAGCCAAGC
CCAGAGCCCTAAGATTACAAACAACCTATGGCCGGAACCTCCTCAGCTCTCCCTCTGCAGAGTTCCCTACCTAAG
AGAATGTTACCACCTGAACAGTCCTCGGTGAATCTGAGAGGAGAGGATGGGGTAAGGCAGAAGCACCAGCTGTAC
TACTAGAAGGGAGCTTTTGGTGGTAGATCCCCTGGTGTCTCCAACCTGACTAGGTGGACAGAGCTCAAAGAGGCC
CTCTTACCGCTAGCGAGGTGATAGGACATCTGGCTTGACAAAGGCTGTTCGACCAGACATATCCTAGCTAAGG
GATGTCCAAACATCAGAATGTGAGGCCAACCTTCTATCAGAGTTAACTTTTGACAAGGGAACAAATCTCAAACCT
GATCCATCAGTCATGTAGCTAGCTGTAGAGCTTGCAACTTAATAGCAGCAGCTGCCCAATGCCATGTGAAGTAAC
AAACTGGTTTTTGGTTTTTTTTTCCCCTTCAGTTTTAATGTTATGTGTAATGTATTTAAACCCTTATTTAAATAA
AACTTGTTTTTCAGAAATAAAAAAAAAAAAAAAAAAAAAA

1859/2825
FIGURE 1658

MSAIQNLHSFDPFADASKGDDLLPAGTEDYVHIRIQQRNGRKTLLTVQGIADDYDKKKLVKPFKKKFACNGTVIE
HPEYGEVIQLQGDQRKNICQFLVEIGLAKDDQLKVHGF

1860/2825
FIGURE 1659

GAGCAGTGCGGTGGCTGCCGGAGAGCCAACACCACGGATCGGCCCCACGCCTTCCAGGTCATTCTCTCCGACCGG
CCCTGCCTGGAGCTAAGTGCCGAGAGCGAGGCCGAGATGGCCGAGTGGATGCAGCATCTCTGCCAGGCTGTGTCC
AAAGGGGTCATCCCCCAGGGCGTAGCTCCCAGCCCCCTGCA¹TACCTTGCTGCCTGGTCC²TACGGATGACCGCCTC
TTTACGTGCCATGAGGATTGCCAGACCAGCTTCTTCCGCTCTTTGGGCACAGCCAAGCTGGGCGACATCAGCGCC
GTCTCCACCGAGCCGGGCAAGGAGTACTGCGTCTTGGAGTTCTCCCAGGACAGCCAGCAGCTCCTCCCGCCCTGG
GTCATCTACCTGAGCTGCACTTCTGAACTGGACCGATTGCTGTCTGCACTGAACTCTGGGTGGAAAACCATCTAT
CAGGTGGACCTCCCCCACACGGCGATCCAGGAAGCCTCCAACAAGAAGAAATTGAGGATGCCTTGAGCCTCATC
CACAGCGCCTGGCAGCGGAGCGACAGTCTCTGCCGCGGCCGAGCCTCCCGAGACCCCTGGTGCTGAGGCAGAGCT
GGTTGGCGTCCCTGGTGGGCAGGAAAGGAAGGCACGCCAGCCGGCAGGCACACTGTCACGGCTGTTGTCATGCTG
TCGGGAGCCTACAGTCCACCCCTGCCCTGGGCGGCAGAACCCACCGAGTGTGGCTTAAGACAGGGTCCCTCCACTC
CAGGGATCCAGATCAGGTGCCCGGCACCCCTGGGCATCCTGCCCGACAGGTAGCGAATGGAGGTGCTGGGGGCA
GAGGGTCCGAGCCCCGTGGGCTCTGCGGATGCACGCCCTCCTCCCGGGCCTCCGCCTCAGTCTGCAGAATTTCTG
CCGAGTGGCACCGAGAACACCATCCATCTAAGGACGAACAAAAGAACCAGGAGGGCGGGACCCCCCTCTTCTCTCT
CCTGGGTTGGGGGCTGGGGCCCTGAGTGCCAGCCATCCTTGTTCTGTTTGAACACTCTCTGGCCACGTGGGG
AAGCGGGAACACGGGGTGTCTGCGCATGTTTCTCTCTCTAGCTCCATCACTGCGCACACAGCTGCCTGCCTCGC
CAGATGCAGGGGGGCGGGCAGCCCTCCCTGGCTGCCAGGAGGCTCTGCATGCCACAGTCCTGCCCTGCCTCTCC
CCTCAACCCGGCAGTGCCTGTAGCACCGAGGAGCAAAGGGGGTGGATGGGGGGCTTGGAGAAGGGCGGAGCCAC
CAGCCTGGCATCCATGTTGACATCTTCTGACTGTCCCCTGCTTGGCTGGAGCCAGGCCCTTCCCTAGAGTTTCGT
CAAGAGCCTCCTGGGGAAGGGGTGAGGTGGTTTGGGTTTTGTTTTTTAAATAAAATAGACATGTTATATTGCCA
AAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1861/2825
FIGURE 1660A

GGCTGGCGGCGGTAGCTGTGCGCCGCTTGGTTGCGTGACCGCGGGGTCCGCGTCCGCTCCCTCCACCCCTTCGCCC
TTCGCCCTTCGCCTCGTCCCGGCCTCCGCGGGCCAGCAACGGCCGTCATGGTGCCGTCGGCGCTCCCTGCGCGGC
CCCGCTGAGCCTCGGTGCGGCGGCGAGCGGGTCGAGATCGCCATGCCTACCCGAGTATGCTGCTGCTGTTCCGC
TTTGCGTCTCGCTACAAACGCCTGGTGGACAACATATTCCTGAAGATCCAAAAGATGGCCTTGTGAAAACCTGA
TATGGAGAAATTGACATTTTATGCAGTATCTGCTCCAGAGAACTGGATCGAATTGGTTCTTACCTGGCAGAAAG
GTTGAGCAGGGATGTTGTCAGACATCGTTCTGGGTATGTTTTGATTGCTATGGAGGCACTGGACCAACTTCTCAT
GGCTTGCCATTCTCAAAGCATTAAAGCCATTTGTAGAAAGCTTTCTTCATATGGTGGCAAAGCTGCTGGAATCGGG
GGAACCAAAGCTTCAAGTTCTTGAACAAATTCTTTTGTCAAATTTGCAAATATTGAAGAAGACACACCATCCTA
TCACAGACGTTATGACTTTTTTGTGTCTCGATTGAGTCCATGTGCCATTCTGTGCATAGTGATCCAGAAATACG
AACAGAGATACGAATTGCTGGAATTAGAGGTATTCAAGGTGTGGTTCGCAAACAGTCAACGATGAACTTCGGGC
CACCATTGGAACCTCAGCATATGGATAAGATTGTTCCATCCCTCCTGTTTAAACATGCAAAGATAGAAGAAGT
TGACAGTCGCATAGGCCCTCCTTCTTCTCCTTCTGCAACTGACAAAGAAGAGAATCCTGCTGTGCTGGCTGAAAA
CTGTTTCAGAGAACTGCTGGGTGAGCAACTTTTGGGAATATGAATAATGCTGTTAGACCAGTTTTTGCGCATTT
AGATCATCACAACTGTGGGATCCCAATGAATTTGCAGTTCACTGCTTTAAAATTATAATGTATTCCATTCAGGC
TCAGTATTCTCACCATGTGATCCAGGAGATTCTAGGACACCTTGATGCTCGTAAAAAAGATGCTCCCCGGGTTCG
AGCAGGTATTATTAGGTTCTGTTAGAGGCTGTTGCCATTGCTGCTAAAGGTTCCATAGGTCCGACAGTGCTGGA
AGTCTTCAATACCTTTTTGAAACATCTGCGTCTCAGCGTTGAATTGGAAGCAATGATTTACAGGGGGGATCTGT
AGGCAGTGTCAACTTAAATACAAGTTCCAAAGACAATGATGAGAAGATTGTGCAGAATGCTATCATCCAAACAAT
AGGATTTTTTGGAAAGTAACCTACCAGATTATCAGAGGTCAGAAATCATGATGTTTATTATGGGGAAAGTACCTGT
CTTTGGAACATCTACCCATACTTTGGATATCAGTCAACTAGGGGATTTGGGAACCAGGAGAATTCAGATAATGTT
GCTGAGATCTTTGCTTATGGTGACCTCTGGATATAAAGCGAAGACGATTGTTACTGCACTGCCAGGGTCTTTTCCT
GGATCCTTTGTTATCACCATCTCTCATGGAGGACTACGAACTGAGACAGTTGGTCTTGGAAGTAATGCATAATCT
CATGGATCGTCATGACAATAGGGCAAAGCTTCGAGGGATCAGAATAATACCGGATGTAGCTGACCTAAAGATAAA
AAGAGAAAAAATTTGCAGACAAGACACAAGTTTCATGAAAAAGAATGGGCAACAGCTGTATCGGCACATATATTT
GGGTTGTAAAGAGGAAGACAACGTTTCAGAAAACTATGAACTACTTTATACTTCTCTTGCTCTTATAACTATTGA
ACTGGCTAATGAAGAAGTAGTTATTGATCTCATTTCGACTGGCCATTGCTTTACAGGACAGTGCAATTATCAATGA
GGATAATTTGCCAATGTTCCATCGTTGTGGAATCATGGCACTGGTTGAGCATACTCAACTTTGTAAGTCAGAT
GATAGCTGTCCCTGCATTTTGCCAGCATGTTAGCAAGGTTATTGAAATTCGAACTATGGAAGCCCCCTATTTTCT
ACCAGAGCATATCTTCAGAGATAAGTGCATGCTTCCAAAATCTTTAGAGAAGCATGAAAAAGATTTGTACTTTCT
GACCAACAAGATTGCAGAGTCGCTAGGTGGAAGTGGAATATAGTGTTGAGAGATTGTCAGTTCCGTATGTACCACA
AGTAACAGATGAAGATCGACTTTCTAGAAGAAAAAGCATTGTGGACACCGTATCCATTTCAGGTGGATATTTTATC
CAACAATGTTCTTCTGATGATGTGGTTAGTAACACTGAAGAAATCACTTTTGAAGCATTGAAGAAAGCAATTGA
TACCAGTGGAATGGAAGAACAGGAAAAGGAAAAGAGGCGTCTTGATAGAGAAATTTAGAAAGCACCTTTTGA
AGAAATAGCAGCACAGTGTGAATCCAAAGCAAATTTGCTTCATGATAGACTTGCCCAAATATTGGAAGTCACCAT
ACGTCTCTCTCCAGTCCATCAGGAACACTGACCATTACTTCTGGGCATGCCCAATACCAATCTGTCCAGTCTA
TGAGATGAAGTTTCCAGATCTGTGTGTGTACTGATCGGCGCATGAAGACCTCAGCATATGATTTGTAAAGCCTAA
AAATTAAGGCCAAGCTGAGCTTTCAGGGTTTACTTAATGTGTATTAACATACTTCTTGAAATAATGATGGAACA
TATCTTTAACCAAATGTTTGGCATACCATATTAGAAGTTTTTGGAGCTATATATAATTTGAGTACTTTCAAAGAT
AGATTTATGCCATGTTAATTTGCTTTGAGGTTTCTGTTGCCTTTTTAAGTTGAACATGTTTTGGTTTTCACTTTAT
TCCACTGTTAAGTAGTATGTTTTAACTTTTTACAAATGTAATGTTTTTTAAAAAGTAAGCCTTCAGAGGATTGA
AACTGTATAAAATTGTTTATCTCTTAAACATCTACACAGCCGCTTAGATGTAGAATTTTTGTTGTTGTTTTCTGCA
AAGGCAGATACATTTAAATATATTCTAGTCCTGGGGCTGCAAAACTGTTCCGGTGGCTTTTTTGTCCCCATGCTTT
AGATAAGCTGGGATAGGCACCTTGCTATTTCAGTTACTATAATAATATGTGATAGGCATTCTCATCTTCTTCACA
ATAATAGGACATCTGTTGAATAGCATTCCTCGAATATAACCTTAAACGCCATACTTTAAATTGTCTGGTTCTT
GTAATATTGTGTTTCTGCCAAGAGTTTGACCATTCTGCTTGAGAAGGTAGAGCTTACTCTTGAGGTACCAAAC
TGTGCAATATTTTACATCATAAGATGTATTAGTTTACAGGCTGTGCTTTGAAATTATAGTAGTATTTTGTGTG
GCTCCATTAATTAATGAGATATATATTTAGTGCAGAAAAAAGACATTTAAACAGCTATTAGTTACCTGTGAA
GAGTCTGTACATTTTGATTTCTATTAAGAGCACATTTATTTACATTTGTATATTATTTTAAATCCTCATAGTCAA

1862/2825
FIGURE 1660B

AAAATTCTCCAGATGGACTTTTAATTTGTAAGATTTGAACTGTGACTTGTATACATCTGTTTAGAATCAATTATA
TTTGAAAAGCTGCCGTGTGTTTTAACAGTCAAGTGTGCTAAAGTTTTGTCAATTTAAGCTGCTTTTGATTTTCAGCTA
CCAAGATTACAGGTGCACCTCTACACATAACACTGACAGACCCATAACATTACATACATCTTAGTGAATTCTATCA
CATGGTAAATGAACAGCTTTCTTTGTAACCTCATAAAATTTCTCTTAGGACATTTTTATAAAGTCACCTGTTTATA
GTTCTATCTTTTCAGATTCCATTTCTTTTACATAAAACAGCATACATATCAAAAACCTGTAGCCTAGAATACAGT
TTAATTTTTGGCTTTTGTTTTGTTTTAAAAAATTGCAGTGAAGAATGGGATGTTTGTGTTTATGGCTATTTGGGC
ACCTTTAGTAGAAACAGACAAAAGTAAGGAAACGATAATAGGACAAGCATACTTGAAAATTTCTGAATACTTAAA
CAAAAGCGCAACATCTTGAAAACCAGTCTAGTCATTGAAACCTATGAAATGACACTGAAAGATCCTGGGCTGCTT
CTTAAATAAGTAGATCAGCAAGACTTGTTTCAGAGTGACAGTGGAGTCGTTACCGCTGGAGGACTAAAGGGCCCT
GTGGCAGCTGTCACTGGAACCTTGCCTCTTGATCAGGAAAAATGCTTCACCAGTCCGTAAAGCCAAGTTGTATTT
TTTTTATTGCCCTTTTTTCTTCTGTATTTTTAAAGAAGGATGTTAATTTTTGACTATATATTTTTAAAAAATCT
AAGCAGGGGGACATGCAAAAACAATCATCATCCACTTGGATGTCATTTTATAGATTAACACTGTGTGCTTTTGT
TGAAAAAATATATATAATTTAATAGTATAAAAAATAAAATATATATTCATTTGCACCTTACGTGAAACACAACT
TTGCTCTACAAAATTTCTGTGTTTCTTAGTGATTTTTAAATGCATGTATTGCATGTAAAGGAAAACCATTACAATT
AATGTTTATCACACCTTTATCTTGGTCTTTGTTGATTTGGGTTTTGTTGGGGTTTTTGTACTGTTTTTAAATTA
CAGTAGGCTTCTATATATCCTGGATTTCTGAACTGGTCTTGTTGACAAGGATTCCCAAGAAATGGATCTTTTCAC
TGGCTGACTCTCCCATATCTGCAAGAGATTCTGCAGGAACTGGGTGTGCACACGGTGTTGTAGCCAGTTCAGGTA
CTGAATATTTAGGATTTGGTGAAGTTCAGTGTATTGCTATATTTTTGTAGATAAAATAAACTCAATAAATTGTTA
ATCATTCTCTTTTTGCTGTATAGAATTGCTTATATCACTCTTTCTTTTCATGACATTGGTTAACATTTAAATGTTT
CTCCTGTACTTGTGTTGTCTGTGACCGCTTATAGAGTTTTATTGTTATTGGTGTTTACCTGAATACCTATGCGTA
CACACACACATATTTCCTTAATACTTCTGAACTCATTATCTTTTGAATAATAATACTACTACACTTTACCAGCA
ATTAACCTCTCCCTACCCAAAATGTTTTCTTCTGCTGCTGAAAATGGAACATAATTTGTCTTATTCGTGCTTATAT
CTGTATTAAATGCAATAAAGTTAGTTTTTGAATGT

1863/2825
FIGURE 1661

AGGGSCRPLGCVTAGSASAPSTLRPSPFASSRPPRPSNGRHGAVGAPCAAPLSLGAASAVEIAMPTRVCCCCSA
LRPRYKRLVDNIFPEDPKDGLVKTDMEKLTFYAVSAPEKLDRIGSYLAERLSRDVVRHRSYVLIAMEALDQLLM
ACHSQSIKPFVESFLHMAKLLSEGEPKLQVLGTNSFVKFANIEEDTPSYHRRYDFFVSRFSAMCHSCHSDPEIR
TEIRIAGIRGIQGVVRKTVNDELRAIWEPOHMDKI VPSLLFNMQKIEEVDSRIGPPSSPSATDKEENPAVLAEN
CFRELLGRATFGNMNNAVRPVFAHLDHKKLWDPNEFAVHCFKIIMYSIQAQYSHHVIQEILGHL DARKKDAPRVR
AGIIQVLL EAVAIAAKGSIGPTVLEVFNTLLKHLRLSVEFEANDLQGGSVGSVNLNTSSKDNDEKIVQNAI IQTI
GFFGSNLPDYQRSEIMMFIMGKVPVFGTSTHTLDISQLGDLGTRRIQIMLLRSLLMVTSGYKAKTIVTALPGSFL
DPLLSPSLMEDYELRQLVLEVMHNLMDRHDNRALRGIRIIPDVADLKIKREKICRQDTSFMKKNGQQLYRHIYL
GCKEEDNVQKNYELLYTSLALITIELANEEVVIDLIRLAIALQDSAIINEDNLPMFHRCGIMALVAAYLNFVSQM
IAPPAFCQHVSQVIEIRTMEAPYFLPEHIFRDKCM LPKSLEKHEKDLYFLT NKIAESLGGSGYSVERLSVPYVPQ
VTDEDRLSRRKSIVDTVSIQVDILSNNVPSDDVVSNTTEEITFEALKKAIDTSGMEEQEKEKRRLVIEKFQKAPFE
EIAAQCESKANLLHDLRAQILELTIRPPPSPSGTLTITSGHAQYQSVPVYEMKFPDLCVY

1864/2825
FIGURE 1662

GGCAGGAGGGAGGGAGCCAGAGGAAAAGAAGAGGAGGAGAAGGAGGAGGACCCGGGGAGGGAGGCGCGGCGCGGG
AGGAGGAGGGGCGCAGCCGCGGAGCCAGTGGCCCCGCTTGGACGCGCTGCTCTCCAGATACCCCCGGAGCTCCAG
CCGCGCGGGATCGCGCGCTCCCGCCGCTCTGCCCCCTAACTTCTGCCGTAGCTCCCTTTCAAGCCAGCGAATTTAT
TCCTTAAAACCAGAACTGAACCTCGGCACGGGAAAGGAGTCCGCGGAGGAGCAAAACCACAGCAGAGCAAGAAG
AGCTTCAGAGAGCAGCCTTCCCGGAGCACCAACTCCGTGTCGGGAGTGCAGAAACCAACAAGTGAGAGGGGCGCCG
CGTTCCCGGGGCGCAGCTGCGGGCGGCGGGAGCAGGCGCAGGAGGAGGAAGCGAGCGCCCCGAGCCCCGAGCCC
GAGTCCCCGAGCCTGAGCCGCAATCGCTGCGGTACTCTGCTCCGGATTCTGTGTGCGCGGGCTCGCCGAGCGCTGG
GCAGGAGGCTTCGTTTTGCCCTGGTTGCAAGCAGCGGCTGGGAGCAGCCGGTCCCTGGGGAATATGCGGCGCGCG
TGGATCCTGCTCACCTTGGGCTTGGTGGCCTGCGTGTGCGCGGAGTCGAGAGCAGAGCTGACATCTGATAAAGAC
ATGTACCTTGACAACAGCTCCATTGAAGAAGCTTCAGGAGTGTATCCTATTGATGACGATGACTACGCTTCTGCG
TCTGGCTCGGGAGCTGATGAGGATGTAGAGAGTCCAGAGCTGACAACAACCTCGACCACTTCCAAAGATACTGTTG
ACTAGTGCTGCTCCAAAAGTGAAACCACGACGCTGAATATACAGAAACAAGATACCTGCTCAGACAAAGTCACCT
GAAGAACTGATAAAGAGAAAGTTACCTCTCTGACTCAGAAAGGAAAATGGACCCAGCCGAAGAGGATACAAAT
GTGTATACTGAGAAACACTCAGACAGTCTGTTTTAAACGGACAGAAAGTCCTAGCAGCTGTCATTGCTGGTGGAGTT
ATTGGCTTTCTCTTTGCAATTTTTCTTATCCTGCTGTTGGTGTATCGCATGAGAAAGAAGGATGAAGGAAGCTAT
GACCTTGGAGAACGCAAACCATCCAGTGCTGCTTATCAGAAGGCACCTACTAAGGAGTTTTATGCGTAAACTCC
AACTTAGTGCTCTATTTATGAGATCACTGAACCTTTTCAAAAATAAAGCTTTTGCATAGAATAATGAAGATCTTTG
TTTTTTGTTTTTCATTAAAGGACCATTCTGGCACTTTAATGATAAAAATCCCATTGTATTTAAACATTTTCATGTAT
TTCTTTAGAACAAACATAAAAATTTAAATTTAACATCTGCAGTGTTCTGTGAATAGCAGTGGCAAAATATTATGTTA
TGAAAACCCCTCGATGTTTCATGGAATTGGTTTTAACTTTTTATGCGCAAATACAAAATGATTGTCTTTTTTCTATGA
CTCAAAGATGAAAGCTGTTTCATTTGTGTGTCAGCATGTCTCAGATTGACCTTACCAAGTTGGTCTTACTTTGTAA
TTTTATCTGTTGTCCCTTTCCTCTCCTCTGCCCTCCCTTCTTGTGCCCTTAAAACCAAACCCCTATGCCTTTTGTAG
CTGTCAATGGTGCAATTTGTCTTTGGAAAATTCAGATAATGGTAATTTAGTGTATATGTGATTTTCAAATATGTAA
ACTTTAACTTCCACTTTGTATAAATTTTTAAGTGTGACACTATCCATTTTACACTTGCTTTATTTTTTTCATTACCT
GTAGCTTTGGGCAGATTTGCAACAGCAAATTAATGTGTAATAATGGATTATTACTACAAAACCGTTTAGTCATAT
CTATCTAATCAGATCTTCTTTTGGGAGGATTTGATGTAAGTTACTGACAAGCCTCAGCAAACCCAAAGATGTTAA
CAGTATTTTAAGAAAGTTGCTGTCAGATTCTTTTGGCCACTGTATTTGTTAATTTCTTGCAATTTGAAGGTACGAGT
AGAGGTTTAAAGAAAAATCAGTTTTTGTCTTAAAAATGCATTTAAGTTGTAAACGTCTTTTTTAAGCCTTTGAAG
TGCCTCTGATTCTATGTAACCTGTTGCAGACTGGTGTAAATGAGTATATGTAACAGTTTAAAAAAAAGTTGGTA
TTTTATAAGCACAGACAATTCTAATGGTAACTTTTGTAGTCTTATGAATAGACATAAATTGTAATTTGGGAACAT
AAAAACTACTGAATAAATCATGTGGCCTAATATTGAAAATGTCAGTGTATAAATTTTGTACATTTTGTATCAAA
TGTACATCTCCCTTTTGCTAACGGCCGTCTGCTCTCAGGTTGACGTGGGTTTGATTTCTAAGTGTTCACAGTGT
CTGTAAATCAAGACCAAAGAGCCTGTGATGAGACTGTTTATTACCAGATTCACCTCTGAATTGGCCAGAGGAAA
TCTGAATGTATTATCCTGTGTGTGTCTAGGTAGAGATATTGGAAGGCTGCCAGGGGATTTGAAAGTTTGCAACCT
TTATAGGATAACTGATGGCAATATTAAGACAGACGCTGCTTTTGCAAATAACTTACAAGACTGTAAATTCACAA
GATCTGAATGGGGCTTTCTGATGTTGGTATCTAAGGCTTAGGCCTATAGATTGATTTACCTTTGGAATTGTGCT
CCAAATGTCTACTGAAGCTTAACCGAAGAACTAATAAATGGACTACAGTAGCTCACGTTACAGGGAACCAACCTA
GGCAGGGAGGCTCTGTGTGTTAAAATGAGGGTCTCACTGCTTTAGGATTGAAGTGGCTGGAAAGAGTGATGCCTG
GGGAAGGAGATGGAGTTATGAGGGTACTGTGGCTGGTACTTTCTGTACTAAACATTTCTTTTTTCTATTTTACCA
CTAATTTTCTTTTAACTGTGAGCCGTCCAAGTCAGAAAGAGACAGCAAAAAAGCAACTTTTCCAACATACAAT
TTACTTTTAAATAAAGTATGAATATTTTCAATTTTGAAGACATTCCCTGGAATTGCCACATAATTCATTAAAAACATT
TTTTTAAGCAACACTTGGAACAGTGTCTTAACTTTAAATCCTTAATGGCCTTAATTAATTCTCAGATTCTGCCCCA
TCACTTACAGAACCAATTCACCTTTAGAGTGACTAAAAGGAAACGATAGCCTAGCTTTCTAAAGCCACGCTGTGTC
CCTCAATTACAGAGGGTAGGAATGGGTATACCTCTAACTGTGCAAAGCAGAGTGAAATTCAATTCATAGAATAAC
AACTGCTGGGAATATCCGTGCCAGGAAAAGAAAAATTTCTGGCAAATATTTTGTCACTGCTGTAAAGCAAAATAT
TTGTGAAAGTGCCAAAATAAAGTCTGTCTATGCCAAAAGT

1865/2825
FIGURE 1663

GRREGARGKEEEEKEEDPGREARRGRRRGAAAEPVAPLGRAALQIPPELQPRGSRAPAALPLNFCRSSLSQRIY
SLKPETEPRHGKGVRRGAKPQQSKKSFREQPSRSTNSVSGVQKPTSERAPRSRGAAAGGGSRRRRRKRAPPSPEP
ESPSLSRNRCGTLLRIRVRGLAERWAGGFVLPWLQAAAGSSRSLGNMRRAWILLTLGLVACVSAESRAELTSDDK
MYLDNSSIEEASGVYPIDDDDYASASGSGADEDVESPELTTTRPLPKILLTSAAPKVETTTLNIQNKIPAQTKSP
EETDKEKVHLSDERKMDPAEEDTNVYTEKHSDSLFKRTEVLAAVIAGGVIGFLFAIFLILLLVYRMRKKDEGSY
DLGERKPSSAAYQKAPTKEFYA

1866/2825
FIGURE 1664

CTTTTTATTTATGAGACAGCTGGAGTGCTGATTGTTAATAGTGAATATCCGGCAGAAAGGAAACAAGCCTTAATG
AGGAATCTGTTGACTCCACTAATGGAGAAGTTTAAATTTCTGTTAGAAAAGTTGATGCTGGCACAAGACGAAGAA
AGGCAAGCCTCTCTAGCAGACTGTCTTAACCATGCTGTTGGATTTGCAAGTCGAACCAGTAAAGCTTTTCAGCAAC
AAACAGACTGTGAAACAATGTGGCTGTTCCGAAGTTTATCTGGACTGTTTACAGACATTCTTGCCAGCCCTCAGT
TGTCCCTTACAAAAGGATATTCTCAGAAGTGGAGTCCGTACTTTTCCTTCATCGAATGATTATTTGCCTGGAGGAA
GAAGTTCTTCCGTTTCAATCCATCTGCTTCAGAACATATGCTCAAAGATTGTGAAGCAAAAGATCTCCAGGAGTTC
ATTCTCTTATCAACCAGATTACGGCCAAATTCAAGATACAGGTATCCCCGTTTTTACAACAGATGTTTCATGCCC
CTGCTTCATGCAATTTTTGAAGTGCTGCTCCGGCCAGCAGAAGAAAATGACCAGTCTGCTGCTTTAGAGAAGCAG
ATGTTGCGGAGGAGTTACTTTGCTTTTCTGCAAACAGTCACAGGCAGTGGGATGAGCGAAGTTATAGCAAATCAA
GGTGACAGAGAATGTAGAAAGAGTGTTGGTTACTGTTATCCAAGGAGCAGTTGAATATCCAGATCCAATTGCACAG
AAAACATGTTTTATCATCCTCTCAAAGTTGGTAGAACTCTGGGGAGGTAAAGATGGACCAGTGGGATTTGCTGAT
TTTGTTTATAAGCACATTGTCCCCGCATGTTTCTAGCACCTTTAAAAACAAACCTTTGACCTGGCAGATGCACAA
ACAGTATTGGCTTTATCTGAGTGTGCAGTGACACTGAAAACAATTCATCTCAAACGGGGCCCAGAATGTGTTTCAG
TATCTTCAACAAGAATACCTGCCCTCCTTGCAAGTAGCTCCAGAAAATAATTCAGGAGTTTTGTCAAGCGCTTCAG
CAGCCTGATGCTAAAGTTTTTAAAAAATTACTTAAAGGTGTTCTTCCAGAGAGCAAAGCCCTGAGGACTGGATTTT
CCTGTGCCTACTTCATGATCATGAATTCAGTTAATTTATAAAGAGGCGATTTTTGTGTGCCATTACACTGGTC
TTTTTTCACATTGTTTTGAGCTTATTGCAGTATAATGTTTTGGGATTTTTCTGTAAAATGGGTGTAATTTTCTAAT
ACAGGTATGTAACAACAAAAGAAGTTGCCTGCATGCCGGTCCAAATTGTTCTGTATAAAGATGCTCTTAAAAGAC
ACAAGAGTTATCCTAGAACCTTAATTCCTTTTTTATTTGAAATTTTAAGTCAAGTCCTTTATAAAGACCATAGCAG
TGGAAAACAGTGTAATTTTTAAAAAATTGCTGAATATAAAATCTTTGAGAATTTTCTTTATGTGTGAAGACACAA
AGTATGGGGGAAGACAGCAATCAAACTAATTTTTGTAGATAGCCATTTCAATTTCTTTAACTGTTTCAACGCC
AATATGTATTCTACAAAAGAGAATGGTTTTAGGCTCCAGTGTTATACTTTTTTTTTATATATATATATAAAAAATAA
ACTTTACGTAGTGAATAAAAAAAAAAAAAA

1867/2825
FIGURE 1665

GGGGAGTAGGTCGGGAAGTTCTAGTAGTGGTAGTTCCAGTAGCAATAGCAGAACTAGTAGTACTAGTAGTACTGT
CTCTAGCTCTTCATACAGTTCTAGCTCAGGTAGTAGTCGTACTTCTTCTCGGTCTTCTTCTCCTAAAAAGGAAAAA
GAGACACAGTAGGAGTAGATCTCCAACAATCAAAGCTAGACGTAGCAGGAGTAGAAGCTATTCTCGCAGAATTAA
AATAGAGAGCAATAGGGCTAGGGTAAAGATTAGAGATAGAAGGAGATCTAATAGAAATAGCATTGAAAGAGAAAAG
ACGACGAAATCGGAGTCCTTCCCAGAGAGACGTAGAAGTAGAAGTCGCTCAAGGGATAGACGAACCAATCGTGC
CAGTCGCAGTAGGAGTCGAGATAGGCGTAAAATTGATGATCAACGTGGAAATCTTAGTGGAACAGTCATAAGCA
TAAAGGTGAGGCTAAAGAACGAGAGAGGAAAAAGGAGAGGAGTCGAAGTATAGATAAAGATAGGAAAAAGAAAGA
CAAAGAAAGGGAACGTGAACAGGATAAAAGAAAAAGAGAAACAAAAAAGGGAAGAAAAAGATTTTAAAGTTCAGTAG
TCAGGATGATAGATTAAAAAGGAAACGAGAAAGTGAAAGAACATTTTCTAGGAGTGTTCTATATCTGTTAAAAAT
CATAAGACATGATTCTAGACAGGATAGTAAGAAAAGTACTACCAAAGATAGTAAAAAACATTCAGGCTCTGATTC
TAGTGGAAGGAGCAGTTCTGAGTCTCCAGGAAGTAGCAAAGAAAAAGAAGGCTAAGAAGCCTAAACATAGTCGATC
GCGATCCGTGGAGAAATCTCAAAGGTCTGGTAAGAAGGCAAGCCGCAAACACAAGTCTAAGTCCCGATCAAGGTA
GTATACTTTTTAAAGTATTTTGTCTGATTTTTAAAAAAAATTGACTGAATTTATTCAAAGTTGAAAGTGTCTTTT
CTCTCTCTCTTTAATAAACTCAGTTTGGTACTTGATAAATAATCATAGTCTTAAATGTTAGAAATCCTATATAAT
ATTATTTATTAAAAATTGCAGATTTTTAATTTAAAAATACATTTTTATTTTTAAATTTTGTCTTTTCCCTTTTTTT
TCAGATCAACAACCCCTCCCGTCGTAAACGCTGAGGAATGATGTGGCAAGAATGCCATGATGTTCTTTAAAAAA
ATTCCATGAGTTTTAAGGGCTTGTCTCATTATAGAGGCACATTGTGGCTGTGTAGGTGAAACCAGAATCTTTTTT
TTTTAATCTGTAAATAGGTGTACTTTTTCCAATGCTGCTCCAAGTTACTTAATAGGATTTCTTTGTATTACGTTT
TTTTCAAAAAATATAGTGCATAATAAGACTATAAACATGCCATTCTTTTCAGCTGTAATGTTCTTAAAAATTATT
CTTGAATGTACTGTGATGTCAATAAAGCTCTTTAGTTCATTTTTGTAAACTCTTGCACCTTAATTTTTATGGTTT
TAATCTAAGGAACGTACTTTTTATAAAAAAGGCAGCTGGAATTTGTATAACAGGTTTTAAGGTACCTTCTCTCAC
CTCCCCCAAAGAAAATGGTTTTTACTTAATAGTTTGTCAAAGTTTGTAAATTGTACCCATGGACTTTTGCCAGAT
TCCAACTTTAAGGGTATGAAGAGGGCTAGAAATAGACCTTTACTTTTCATTGGAAGTATTTGACAACCTTTCTA
AACTTTTCTCCTATTTTGGGGATTTTCAAGTAATATATTCTCTGTGTGTATAACGTGTGGTTCACTCCTGTAAA
ATGAAATTGCTGGAATCAATCAAGCCAGTGCACCAGTAGAGTTATTTGTAAGGAACGATTGTGTTTGACAGTAAT
AGTCAAGTCTGGAATATATTCTACAGTCACCCACTTCTGTTTTAGAAGCATTTTGAAACACTTTTTGGGGTTAT
AGAAATAAGACTCATGATTCAATATATTTATTTATATTTTTAAAGTATAATATGACCTCAAATCAATGGAGGAAT
GCTGTATTATGCAGGTTTGTGTCAATTTTCATGACATTAAATTTGTCTGATTTTGTCCGTTTCTTAAAAATTATGAT
TAGTGAGTGGTCTAACAGTTTAAGGCATTGATAACTTACAAGTAGAGTGGGGCTCTCAAAGCATTTTAACTCAGT
TGCTTTAGGGTCCATTTTTTTATGTAATCACTTACTCAGTGATAAATGAATCTCTGAAAACAAATGCTTTTACAT
TTAATTTAAAAAGAAAACAGGTGCAGGCCACAGAAAAGTTTTAAAGTATGCCTTCTTACCAGCAATAGTTCATT
TTAAAAATCATGCCAGATTTTTTGCCAAGATCAGTGTTTCCCTCAACATGAAGATAGAAATAGATTTGTATAGTGTG
CTCTTGTAACCTCTACATAGATTATTATATAATTTTGAGCAGTTACACATTTATCTAAAGGAAATAAATCAACTGT
GAATAAATGCATGTTTACCAAAATGGCTGTTTACAGTGCATTTCAGTTCTGATATTTATAAAGATGACATTTTACA
GAATAACTTTAAATAGTTTGAATTTCTATATAGTTTACATCGATCACATCTGGAGACAAAATAAAATGTGCA
ATATTTTTTATGTAGGCGAGCTAACACAGTGTACCTAATTGCAGAATTATCTGATTAATTTGTAATAGATAAGTT
GTATAACATTTTCATATCTTAAATGTTTTTTAGATCAATCTTGAAGTGAAATATTTTCAAAAATAAAATCTACA
GAAAAAAAAAAAAAAAAAAAAA

1868/2825
FIGURE 1666A

AGGCCACATTGCAGTTGGGCAGCAAGGGCTTGGTAGTGTGAAGGACCCAAGTAACTGTGGGATGCCTCTGACCCC
TCCCACCTCTCCAGAACAGGCTATCCTAGGTGAGAGTGGAGGTATGCAGAGTGCTGCCAGTCACCTGGTTTCCCA
AGATGGAGGGATGATAACGATGCACAGTCCAAAGAGATCGGGGAAGATTCCCTCCAAAACCTCCACAATCATATGGT
CCATCGAGTCTGGAAGGAATGCATCCTCAACAGAACCCAGTCCAAGAGGAGCCAAATGTCAACTCCAACCTCTTGA
AGAAGAGCCTGCTAGCAATCCTGCTACTTGGGATTTTGTGGATCCAACCCAAAGAGTCAGCTGTTCTTGTTCAG
GCATAAGCTTTTAAAACGTTGTGCAGTCGGGCCCAATCGACCTCCACAGTATCTCAACCAGGGTTCAGTGCAGG
ACCATCATCATCTTCATCTTTACCACCTCCTGCTTCTTCTAAGCACAAAACAGCAGAAAGACAGGAAAAAGGAGA
CAAGCTGCAAAAGAGACCCTTAATACCATTTCACCATAGGCCCTCTGTGGCCGAAGAATTATGCATGGAGCAAGA
TACACCAGGACAGAACTAGGGTTGGCAGGGATAGACTCCTCCTTAGAGGTGTCTAGCAGTAGGAAATATGATAA
GCAAATGGCCGTGCCTTCCAGAAATACAAGCAAGCAAATGAATCTGAATCCTATGGATTACCTCATTCCCTAT
ATCCCTCTGCCACCAACACTCAGCCCTCAGCCACGAGGTGAGGAAACAGAGAGTTTGGACCCACCATCGGTCCC
TGTGAATCCAGCCCTTTATGGAAATGGACTAGAACTCCAGCAGTTGTCTACTCTGGATGACAGAACTGTCTCTGT
AGGCCAAAGACTGCCTCTCATGGCAGAGGTGAGCGAGACAGCCTTATATTGTGGGATTAGGCCCTCGAACCCGGA
GTCATCAGAAAAAGTGGTGGCATAGTTATCGTCTCCACCCAGTGATGATGCTGAGTTCAGGCCTCCAGAGCTCCA
GGGTGAGAGATGTGATGCCAAAATGGAGGTAAACTCAGAGAGCACTGCATTGCAAAGACTCTTAGCACAACTAA
CAAACGGTTTTAAAATCTGGCAAGACAAACAGCCCCAGTTGCAGCCACTCCACTTCCTTGACCCATTGCCTCTATC
ACAACAACCTGGAGACAGTTTGGGAGAAGTGAATGACCCATATACCTTTGAAGATGGTGACATAAAATACATCTT
TACAGCCAACAAGAAATGCAAACAAGGGACGGAGAAAGATTCCCTGAAAAAGAATAAGTCAGAGGATGGATTGG
TACCAAGGATGTCCTACACCAGGTCATTCCACGCCGGTGCCTGATGGGAAAAATGCCATGTCTATTTTCAGTTC
TGCTACTAAAACAGATGTCCGGCAGGATAATGCTGCTGGCAGAGCTGGCTCCAGTAGCCTTACACAGGTAACAGA
TTTGGCACCTTCCCTGCATGACTTAGACAACATCTTTGATAATTCTGATGACGACGAACCTTGGGGCTGTATCACC
TGCTCTGCGCTCATCAAAAATGCCTGCAGTTGGGACAGAAGACCGACCTCTTGGGAAGGATGGAAGAGCTGCTGT
TCCTTATCCACCAACAGTTGCAGACTTGCAAAGGATGTTTCCCACTCCACCATCTTTGGAACAGCATCCTGCATT
TTCTCCTGTGATGAATTATAAAGATGGGATCAGCTCAGAGACAGTGACAGCATTAGGCATGATGGAGAGCCCTAT
GGTCAGTATGGTTTCAACACAACCTCACAGAATTCAAAATGGAAGTGGAAGATGGATTAGGAAGTCCCAAGCCCGA
GGAAATTAAGGACTTTTCATATGTGCACAAAGTTCCATCCTTTCAACCTTTTGTGGGATCCTCCATGTTTGCTCC
ACTGAAGATGTTGCCGAGCCATTGTTTGCTACCTCTGAAGATACCTGATGCCTGTCTGTTTCGGCCTTCATGGGC
AATTCTCTCTAAAATTGAACAACCTGCCCATGCCCCCTGCAGCCACTTTCATTAGAGATGGCTACAATAACGTGCC
TAGTGTGGGAGCCTAGCAGATCCAGACTATCTGAACACACCACAGATGAACACACCCCGTGACGTTGAACAGCGC
TGCCCCAGCCAGCAATAGTGGGGCAGGAGTCTACCATCTCCAGCAACCCCTCGCTTCTCTGTCCCCACACCACG
AACCCCCAGGACCCCAAGAACTCCCAGAGGTGGGGGCACTGCCAGTGGTCAAGGGTCTGTTAAGTATGATAGCAC
CGATCAAGGATCACCAGCCTCCACCCCTCTACTACACGGCCCCCTCAACTCTGTGGAGCCCGCCACCATGCAGCC
AATTCCCGAAGCCACAGCCTCTATGTTACCCTGATTCTCTCCGATTCCGTGATGAATATCTTTAAAGACAGAAA
CTTTGACAGCTGTTGCATCTGTGCCTGCAACATGAACATCAAAGGGGCGGATGTGCGGCTTTACATCCCCGATTC
TTCCAATGAGGACCAGTACCGCTGTACCTGTGGGTTTAGTGCGATTATGAACCGAAACTTGGCTACAATTCAGG
ACTCTTCTTGAAGATGAGTTGGATATTTTTTGGGAAGAAATCTGATATTGGTCAGGCTGCAGAGAGGCGCTTAAT
GATGTGTCAGTCCACCTTCCTTCCTCAGGTGGAAGGAACCAAAAACCCCAAGGAGCCACCCATAAGCCTTCTCCT
CCTCCTCCAGAAATCAACACACACAACCTTTTGTCTTCACTGAATTTCTTGACTACATTTCTCTAACAATCGCCA
AACTCTTCCCTGTGTAAGCTGGAGTTATGACCGGGTGCAAGCAGATAATAATGATTACTGGACGGAATGCTTTAA
TGCGTTGGAGCAGGGGCGGCAGTATGTGGATAACCCCACTGGTGGAAAAGTGGACGAAGCTCTGGTGAGAAAGTGC
CACTGTGCACTCTTGGCCTCACAGCAATGTGCTGGACATCAGCATGCTCTCCTCCCAGGATGTGGTTTCGTATGCT
GTTGTCCCTGCAGCCCTTTCTCCAAGATGCCATCCAAAAGAAGCGCACGGGCAGGACCTGGGAGAACATCCAGCA
TGTGCAGGGACCACTCACTTGGCAGCAGTTCCATAAAATGGCAGGACGGGGAACCTACGGTTCGGAAGAATCTCC
TGAGCCGTTGCCATCCCCACTCTGCTGGTAGGCTATGACAAGGATTTCTCACCATCTCGCCATTCTCCTTGCC
GTTTTGGGAGAGGCTCTTGTGGACCCATATGGGGGCCACCGTGATGTTGCCTATATTGTGGTGTGTCCAGAAAA
TGAGGCCTTGCTCGAAGGAGCCAAAACCTTTCTTCAGGGACTTGAGTGTGTATACGAGATGTGTAGGCTTGGGCA
GCACAAGCCCATCTGCAAAGTGCTACGTGACGGGATCATGCGCGTGGGAAAACTGTGGCACAGAAGCTGACAGA
TGAGCTTGTGAGTGAGTGGTTTAACCAGCCTTGGAGCGGCGAGGAGAATGACAATCATTCCAGACTCAAACCTTA

1869/2825
FIGURE 1666B

TGCGCAAGTTTGCCGCCATCACCTAGCACCTTATTTAGCCACTCTGCAGCTTGATAGCAGCCTATTGATACCACC
TAAATACCAGACCCACCAGCAGCAGCACAGGGACAAGCTACGCCAGGGAATGCTGGGCCCTTAGCTCCAAATGG
ATCAGCAGCTCCCCAGCTGGCAGTGCATTTAATCCCACCTCGAATAGTAGTTCTACAAATCCTGCAGCAAGTAG
TTCTGCATCTGGTTCTCTGTGCCACCGGTCTCATCGTCTGCCTCTGCTCCTGGTATTAGCCAGATAAGCACTAC
CTCTTCTTCAGGATTCAGTGGTAGTGTGGAGGGCAGAACCCAGCACTGGGGGCATTTCTGCGGATAGAACGCA
AGGGAACATAGGCTGTGGTGGAGACACTGACCCTGGGCAGAGCTCTTCTCAGCCCTCACAGGATGGACAAGAGAG
TGTTACAGAAAGGGAGAGAATAGGAATTCACGAGCCTGACTCTGCAGACAGCCATGCCACCCTCCAGCTGT
TGTCATTTACATGGTGGACCCGTTACGTATGCTGCAGAGGAGGACTCCACTTCTGGGAACTTTTGGCTGTTGAG
CTTGATGCGCTGCTACACAGAAATGCTGGATAATTTACCTGAGCATATGAGAAATCTTTTATTCTCCAGATTGT
GCCTTGCCAGTACATGCTGCAGACAATGAAGGATGAGCAAGTTTTCTACATTCAATACTTGAAGTCCATGGCATT
TTCAGTGTACTGCCAGTGCAGGCGACCACTGCCTACACAGATCCACATTAAATCCCTCACGGGATTTGGGCCTGC
AGCCAGCATTGAGATGACCCCTCAAGAACCCTGAGCGGCCAGCCCAATCCAGCTTTACTCCCCTCCCTTTATATT
GGCCCCAATCAAAGACAAGCAGACAGAGCTGGGAGAGACGTTTGGTGAGGCGAGCCAGAAATACAATGTGCTCTT
CGTGGGCTATTGTCTGTCTCACGACCAGCGCTGGCTTTTGGCTTCCTGCACTGACCTCCATGGGGAATTATTAGA
GACCTGCGTTGTAAATATTGCTTTACCAAACAGGTCACGGAGGAGTAAAGTATCTGCACGTAAAATTGGACTACA
GAAGTTATGGGAGTGGTGCATAGGGATTGTCCAAATGACATCTCTACCCTGGAGAGTTGTAATCGGGCGACTTGG
GCGTCTTGGCCATGGGGAGCTTAAAGATTGGAGTATCCTCCTTGGAGAATGTTCACTACAGACAATCAGCAAAAA
GCTCAAGGATGTGTGCCGGATGTGTGGAATCTCTGCCGCAGACTCTCCTTCTATCCTTAGTGCCTGCCTGGTTGC
CATGGAGCCCCAGGGTCTTTGTAGTGATGCCAGATGCTGTGCACAATGGGCTCTGTTTTTGGCCGAAGTACTGC
ACTGAACATGCAGTCATCTCAGCTCAACACCCCTCAAGATGCTTCTTGTACACACATCTTGGTGTTCCTAACATC
ATCAACCATCCAGGTGGCTCCAGCCAATACCCCAATGAAGATGGGTTTAGCCCCAACAATGATGATATGTTTGT
TGACCTTCCATTCCCAGATGATATGGACAATGATATTGGCATATTAATGACTGGGAACCTCCATTCTCTCCCAA
CTCTTCCCCAGTACCCTCCCCAGGCTCTCCTTCTGGAATTGGTGTGGGCTCTCACTTCCAGCATAGTCGGAGCCA
GGGTGAGCGTCTTCTTTCTAGAGAAGCACCAGAGGAGCTAAAGCAGCAGCCCCCTGGCCCTTGGGTATTTTGTATC
AACTGCCAAAGCTGAGAATCTTCCCCAGTGGTTTTGGTCATCGTGTCCCCAGGCTCAAACCAGTGCCCTCTCTT
CTTAAAGGCTTCGTGCATCACCACATTTTCTAGTAGCACAGACAGACGAACCTTCTGCCTGCCAGGAATTCTCAGCG
GGTTCACACCCCTTGTACTCCAAAACCACGTCCGATGTTTTAAGGTTTTGTTTTGGAGCAGTACAACGCTCTGTC
CTGGCTCACGTGCAATCCGGCCACCCAGGACCGTACTTCTGCTTCCCGTCCACTTTGTGGTGTCTCACTCAGTT
GTACAATGCCATCATGAATATACTTTTAAATTGGAAAAGCACTTGTCTCTCTGGCTCAGTTCTCTTCTCCCTGCAAC
CTCAGTCCAAGGAACCTGCTACACTCTGCAAATAACCCACATCCTTTTCTTCCAGACACTCTCCACAGTCTGCA
CTGTGATTCTTCTCAGCAGGCACATGTCAATTCTGCAGTGTTCATTACCAGAGTGACTCCTTGACACTTCTCTC
ATGGACCTGGAACTTCCATAAGTGGTGACTTTTCCAGCAGTGCGGTGGTGTGTGTAGCCCCAACCCTGGTCCCC
AGGAAGTGGTGGTGGTTGATGGCTTTTTCAGCGGGAAACAGAAGAGACAGTGTCTTTTGCACAAGAGTCTGTGTT
TTCAGCCTCTGTATACAATTGAGGGCAGTCTAGCCCTTTGGATGAAATCCTCTTAGTTACTGGTGTATGGCCTGT
GGGTTACCTGAACTCCATAATCGGGGACTTTTTTAAAAATAAGAACCAGCTCAAGTACATGGTTTTCTACTGGGGT
TTCTGTCTCCCTAGTGTTCCCATCCAGATTAGCATGAGTGCTTTGGTTGACTTCAAACCTGTGTGTCAATGCAGA
AGGTCTGGAGACAGCTTCATTTTGTATTATTTTAAATTTGTTTTGTTCATATGGTTTTTGTGACTTTATTTTTT
TAATTCACAAGGACCAGGTACAGTAGCTGAAACCCCAATTCAGATCCACCATAGGATTCTTTGACTACATACCTCT
GTCCTAGAAGCCGGAAAAGGAGTAAAAACACATTGGGGAGATCATGCCTAAAAGTAATATATTCAAAACCACCCA
GCAGTAGGTTTTGTAAACAACAACTGGATTTTTAAAGTTCTGCCATGTTAAGTGGCCAGCATTTTCATGAAGGAT
AACATTTTTTATACAGAAGGCAGTCAAGCTCAACTCAGAGCCATGGAGGCAAGTACCTTAATTAGTTTTATATAGT
CACAACGGAAATATATTTTCTAGTGAATTCCTTATTGGAAGCCAGGTCTCTCCTCTCATTAGATCAAAAGGGACTT
ATGTACATACAACAATTGAAAGTGTGTGCTCATGAAATCAGTTATAAATATGGTGAATTTTTTCTGGACCATAGG
AATATTATTTCAAAGAAATATTACAACCTTAACCATTAATTAGTACTTGAAGTTGAGCCTTTGTGGTGGGACTTT
TTAAAAAATGCCTTTTTTAAAGCATTAAATGGCTAATTGAAGTATTTTATGACTCCTCATTCTGGCCCAGAGGGT
TGTCTTTGAAACCCTGTTTCTAACCCCTGTGTTGTGTGTTTCTGTCTGAGGACAGTGGGTGTGTACTGGCCTCCC
GGGAGCCACTGTGACCAGGCCTTTGAGCTCTTGTATCTGTGGAGAGAATCATGCAATTTTTAAAGTTCTTCCA
AGAGACTTCCATGTCCTGGTTATTAACAAAAAAGGAAAAATGTAATAATTGATATGATTTTTGTAAAAGTATTTTT

1870/2825
FIGURE 1666C

CTTGAAATAATCTAAAGTTTAAAACATTATATTAAAAAAAAAAGTTGTGTGGTGGGAATGTGAAAGCAGAGAAAT
AACTTGTAATGGATAATTTTGTTCCTGTACCACCAGTTGAAGGGGGGTTGACTTTCGCAATGTATAGGATAA
AAAATCTGATATATCAAACCATTTGTATCTAATGTGTACAGTGTAATTTGACTTTAAAAATATTGCAGTGCTAT
TTTTTCTTAATCAGAAAGGAAAATTCTCAAGGCCTTTTGAAGAGCATAAGAAGATGAAGATTGTAACTTGTATA
AAATTATCTTGGTGAGAAGACAAATTGTAAAGTAGATATTTGTAATCTTTTACCACCTTTGGGGTTGCTTTTTTCC
CGGAATTCATCAGAACTTTGAATTTTTTTTTTAAATGGGCTGTTTTTAATGCAGGGGCTTTTCTTCCCTAGAAAC
CCAATTCTAAGCAGAAAAAGAAAAAAACACAAAAAATAAAAAACCCCTACAAAAAACTTTAAAAAAATGGCA
GCAAAGGGTAGTTTTCATCTGGTGTCTTTTATTTAAGTTTTTAAAGTTAAGAAAAGCTGGTGACATATTTATACG
TTTTTGTGCAAAAATAAATGAATGGCAATAGATTTTAAAAAATCTTATTATGTACTTCTGTGTGAAAAAGTCTGT
ATAATATTTCCCTTAAATATGCATTATTTTACTTGTGAGTTTTTACTGAATTAATCTGAAATGTACAAGCCCTG
GATTTGCTACAGAGTGAGAAGTTATTTTATTTTTTTTTTATTTTAAATTTTGGAAATCTGCAGAAATCAGAACTC
TTACCATGGTTTGAACAAAAAAAGGGGAAATGGGGAGGGGAAAAGGGTGGGATTGTCCAGCATGCTTGTATGTAT
ATTTTCAGAACCTTTTTTAAATGTAAAAGCTGTACATTTCTGGGAAGTTCTGAATTTCTTTTGTTCCTTTTTTCC
TTCAAGCATTTTGCAGTGAGCTTCTTTTATATATAGCAAACAATTTGAAAGAATACAAAAATATGTGAAGTTCAT
TTAAAAAAATAACTACAGTATAGCGCTGGTACAGTACACTAAAAGACTTTGATAAAAAGAAACAATAATAAAAGG
CCTCCATTTTAAATGTCATTCATATATACCTTGTGGATGAGAGCTATATACTTTTACACACTTTTTTAGAGGAAT
AAATTATTGAATTACTGAAAAAAAAAAAAAAAAA

1871/2825
FIGURE 1667

GHIAVGQQGLGSVKDPSNCGMPLTPPTSPEQAAILGESGGMQSAASHLVSQDGGMITMHSPKRSKGKIPPKLHNHNV
HRVWKECILNRTQSKRSQMSTPTLEEEEPASNPATWDFVDETPQRVSCSCSRHKLLKRCAVGPNRPPTVVSQPGFSAG
PSSSSSLPPPASSKHKTAERQEKGDKLQKRPLIPFHHRPSVAEELCMEQDTPGQKLGLAGIDSSLEVSSSRKYDK
QMAVPSRNTSKQMNLNPMDSPHSPISPLPPTLSPQPRGQETESLDPPSVPVNPALYGNGLQLQLSTLDDRTVLV
GQRLPLMAEVSETALYCGIRPSNPESSEKWWHSYRLPPSDDAEFRPPELQGERCDKMEVNSESTALQRLLAQPN
KRFKIWQDKQPQLQPLHFLDPLPLSQQPGDSLGEVNDPYTFEDGDIKYIFTANKKCKQGTEKDSLKKNKSEDFG
TKDVTTFGHSTPVPDGNAMSIFSSATKTDVRQDNAAGRAGSSSLTQVTDLAPSLHDLNIFDNSDDDELGA VSP
ALRSSKMPAVGTEDRPLGKDGRAAVPYPTVADLQRMFPPTPSLEQHPAFSPVMNYKDGISSETVTALGMMESPM
VSMVSTQLTEFKMEVEDGLGSPKPEEIKDFS YVHKVPSFQPFVGS SMFAPLKMLPSHCLLPLKIPDACLF RPSWA
IPPKIEQLPMPPAATFIRDGYNNVPSVGLADPDYLNTPQMNTPTVTLNSAAPASNSGAGVLPSPATPRFSVPTPR
TPRTPTPRGGGTASGQGSVKYDSTDQGS PASTPTSTRPLNSVEPATMQPIPEAHSLYVTLLILSDSVMNIFKDRN
FDSCCICACNMNIKGADVGLYIPDSSNEDQYRCTCGFSAIMNRKLGYN SGLFLEDELDIFGKN SDIGQAAERRLM
MCQSTFLPQVEGTKKPQEPPISLLLLLQNQHTQPFASLNFLDYISSNNRQTLPCVSWSYDRVQADNNDYWTECFN
ALEQGRQYVDNPTGGKVDEALVRSATVHSWPHSNVLDISMLSSQDVVRMLLSLQPF LQDAIQKKRTGRTWENIQH
VQGPLTWQQFHKMAGRGTYGSEESPEPLPIPTLLVGYDKDFLTISPFSLPFWERLLLDPYGGHRDVAYIVVCPEN
EALLEGAKTFFRDL SAVYEMCRLGQHKPICKVLRD GIMRVGKTVAQKLTDELVSEWFNQ PWSGEENDNHSRLKLY
AQVCRHHLAPYLATLQLDSSLLIPP KYQTPPAAAQGGQATPGNAGPLAPNGSAAPPAGSAFNPTSNS SSTNPAASS
SASGSSVPPVSSSASAPGISQISTTSSSGFSGSVGGQNPSTGGISADRTQGNIGCGGDTDPGQSSSQPSQDGQES
VTERERIGIPTEDSADSHAHPPAVVIYMVD PFTYAAEEDSTSGNFWLLSLMRCYTEMLDNLPEHMRNSFILQIV
PCQYMLQTMKDEQVFYIQYLKSMAFSVYCQCRRLPTQIHIKSLTGFGPAASIEMTLKNPERPSPIQLYSPPFIL
APIKDKQTELGETFGEASQKYNVLFVGYCLSHDQRWLLASCTDLHGELLETCVVNIALPNRSRRSKVSARKIGLQ
KLWEWCIGIVQMTSLPWRVVIGRLGRLGHGELKDWSILLGEC SLQTISKKLKDVCRMCGISAADSPSILSACLVA
MEPQGSFVVMPPDAVTMGSVFGRSTALNMQSSQLNTPQDASCTHILVFPTSSTIQVAPANYPNEDGFSPNDDMFV
DLPPFPDDMDNDIGILMTGNLHSSPNSSPVPSPGSPSGIGVGSHFQHSRSQGERLLSREAPEELKQQPLALGYFVS
TAKAENLPQWFWSSCPQAQNCPLFLKASLHHHISVAQTDELLPARN SQRVPHPLDSKTTSDVLR FVLEQYNALS
WLT CNPATQDRTSCLPVHFVVL TQLYN AIMNIL

AAGAAGTATCCCGGGCGGTATCCCGGCCGTAGGCCCATCCTGCAACTCTCTCCGCCGGTCTCTCGGGGCAGCAGCCG
 GGGCCGGGACCCGAGCCGGAACCCGACACTGAGCCGGACTCAACCGCGCGGTCCCCAGCCAGCCCGCCCCGTC
 GGCGGCGACGACCACCGCGGTGACTGCCGCCGCGGCCCTCGGACGACTCGCCTTCAGAAGATGAACAGGAAGCGGT
 GCAGGAGGTTTCTAGAGTTGTTTCTCAGAATCCTCCAAAACAGTTCATGACCACTAGACCCACAGCTGTTAAAGCAAC
 AGGCGGTCTATGCTTGCTTGCTTATGCTGACAGTGATGACGATGACAATGATGTTTCCGAAAACTAGCACA
 ATCCAAAGAGACAAATGGAACAGTCAACTGATATTGATAGTACATTGGCCAACTTCTAGCGGAGATCGATGC
 CATAACAGCTCCTCAGCCTGCAGCTCCTGTAGGAGCTTCTGCTCCACCTCCAACCTCCACCTCGACCAGAGCCAAA
 GGAAGCAGCAACATCTACCCCTTTCTTCTTCTACTTCAAATGGAACAGACTCCACCCAAACATCTGGTTGGCAATA
 TGATACTCAGTGTTCACTGGCAGGAGTCGGAATTGAGATGGGCGATTGGCAGGAAGTCTGGGATGAGAACACGGG
 ATGTTATTATTATTGGAATACACAAACAAATGAAGTGACTTGGGAGTTACCCCAATATCTTGCCACACAGGTACA
 GGGATTACAGCATTACCAGCCAGTTCTGTGCCAGGTGCTGAACTAGTTTTGTGGTAAATACAGACATATATTC
 TAAGGAGAAAACGATTTCTGTTTCCAGTAGTAAAAGTGGACCAGTCATAGCCAAGCGAGAAGTTAAAAAGGAAGT
 AAATGAAGGAATTCAGGCTCTCTCAAATAGTGAGGAGGAGAAGAAAGGGGTGGCAGCATCGCTGCTTGCTCCTTT
 ATTGCCCTGAGGGAATAAAAAGAAGAAGAAGAGAGATGGAGAAGAAAAGTAATTTGTAAAGAGGAGCCAGTTTCAGA
 AGTAAAAGAAACAAGTACAACAGTAGAAGAAGCAACAACAATAGTAAAGCCACAGGAAATTATGTTGGACAATAT
 AGAAGACCCCTTCTCAGGAGGATCTTTGCAGTGTTGTCCAATCTGGAGAAAGTGAGGAGGAAGAGGAACAAGATAC
 CTTGAACTGGAGCTAGTTTTTGGAAAGGAAAAAAGCAGAGTTGCGAGCCTTGGAGGAAGGAGATGGTAGTGTGTC
 AGGGTCTAGTCCACGTTCTGATATCAGCCAGCCAGCATCTCAAGATGGAATGCGTAGGCTTATGTCTAAAAGAGG
 AAAATGGAAGATGTTTGTTCGAGCTACCAGTCCAGAATCTACCAGTAGGAGTTCTAGTAAAACCTGGACGAGATAC
 TCCAGAAAATGGAGAACTGCAATTGGTGCTGAAAATTCAGAAAAATAGATGAGAATTCAGATAAAGAGATGGA
 AGTAGAAGAATCTCCAGAGAAAATAAAAGTACAGACAACACCAAAAGTAGAAGAAGAACAGGATTTGAAATTTCA
 GATTGGAGAACTGGCAAATACCCTGACAAGTAAATTCGAGTTTCTAGGCATTAATAGACAATCCATCTCCAACCTT
 TCATGTGCTGCTCTTACAGACTGAGACTCGAATTGCAGACTGGCGGGAAGGGGCTCTTAATGGAACTACCTTAA
 ACGAAAACCTTCAGGATGCAGCAGAACAACTAAAAACAGTATGAAATAAACGCCACTCCTAAAGGCTGGTCCTGCCA
 CTGGGACAGGGATCATAGACGGTATTTCTATGTAAACGAACAGTCGGGCGAGTCTCAGTGGGAGTTTCCAGATGG
 TGAAGAGGAAGAAGAAGAAAGCCAAGCACAAAGAAAATAGAGATGAGACTCTTGCCAAACAGACCTTGAAAGACAA
 AACTGGCACTGATTCAAATTCAACAGAATCCTCTGAAACTTCCACAGGTTCTCTTTGTAAAGAATCCTTTTCTGG
 TCAAGTTTCTTCTTCATCACTCATGCCACTTACTCCATTCTGGACCCCTCCTTCAGTCAAATGTTCTGTGCTTCA
 ACCTCCATTACCCTTGGAATGCCACCACCCCCACCTCCACCTCCAGAATCACCTCCACCCCTCCTCCACCACC
 TCCTCCTGCGGAAGATGGTGAGATCCAGGAGGTAGAGATGGAGGATGAGGGAAGTGAGGAGCCCCCTGCCCCAGG
 AACAGAGGAAGATACCCCTTTGAAACCTTCAGCACAAACCACAGTTGTAACCTAGCCAGAGTTTCAGTTGATTCCAC
 CATCTCTAGTTCTTCTTCCACTAAAGGAATAAAGAGGAAAGCTACAGAAATTAGCACTGCAGTGTTTCAGAGGTC
 AGCTACCATTGGCAGTTCTCCAGTTCTCTATAGCCAGTCAGCTATAGCTACAGGTCACCAGGCAGCAGGGATTGG
 AAACCAGGCAACAGGAATTGGACATCAGACAATACCAGTTAGCCTTCCAGCAGCAGGAATGGGTTCATCAGGCCAG
 AGGAATGAGCCTGCAGTCAAATTACCTTGGACTAGCGGCAGCACCTGCAATTATGAGTTATGCAGAATGTTCTGT
 CCAATTGGAGTGACTGCTCCCTCATTGCAGCCAGTTCAGGCCGAGGTGCTGTGCCTACCGCTACCATTATAGA
 ACCACCACCACCACCTCCTCCTCCTCCTCCTCCACCACCACCAGCTCCCAAAATGCCACCACCTGAAAAGACAAA
 AAAAGGAAGGAAAGACAAGGCAAAGAAGAGTAAGACCAAAATGCCATCTTTGGTAAAAAAGTGGCAGAGTATCCA
 GCGTGAGTTAGATGAAGAGGACAATTCTAGTTCCAGTGAAAGAGGATCGGGAATCAACTGCACAGAAGCGAATTGA
 AGAGTGGAAACAGCAGCAGCTGGTTAGTGGCATGGCAGAGAGAGAAATGCTAATTTTGAAGCCCTTCTGAGGATTG
 GAGAGCAAGGCTGAAGAGAAGGAAAAATGGCTCCAAACACATAGTTTTTAAGTTTTTAAACTTTTTTGTATTATT
 GTTTGTTTTGTGTTTCAGTTCAAAGTCTTAACCAGTTTTATTGTCAAATAAACTATAAATGTTATGGGGGAGATCT
 TATAAATTTCTGGGCAAGAGTGTATGCATACAAAGTTTTCACTTTTGTGAAATGTAATTTTTCTGTTTTTGCAA
 AGGGATGAGGTGATTGGAATTGCTTTGACCATGCTGCCTTTATTCTCAAACCTGGCAAACCTTAGCATGTTAGGTGT
 ATTAACCTCATCAGTCTTGAAGAACATGTGGCTCATGAGTATAACACTTCTGTAGAGGACTCCCTGACAAAAGTG
 AAGAATTAACCTTCTCCTCCAGAACAAGTGCAATTGAGAAGGCAGCTCTGCATTCTACCTTGCTTGACTGGAATTG
 TCTGAAGCTTTTTCTGGCCTCTTTTCTCTAGTCGGCCACCCCTGAAGTGCTGAGGTCTAAGTGGTTTACCTCGTG
 CTGATAGATGGCCACACTCTTTAGAGTAGTTCTCATAAAGTTCTAGAACTGGTAGCTCGGTCTGTTTCGCACACTAG

FIGURE 1668B

[illegible]

1874/2825
FIGURE 1669

KKSRAVPGRRPILQLSPPGPRGSTPGRDPEPEPDTEPDSTA AVPSQPAPSAATTTAVTAAAASDDSPSEDEQEAV
QEVPRVVQNPPKPVMTTRPTAVKATGGLCLLGAYADSDDDNDVSEKLAQSKETNGNQSTDIDSTLANFLAEIDA
ITAPQPAAPVGASAPPTPPRPEPKAAATSTLSSSTSNGTDSTQTSGWQYDTQCSLAGVGIEMGDWQEVWDENTG
CYYYWNTQTNEVTWELPQYLATQVQGLQHYQPSSVPGAETSFVVNTDIYSKEKTSVSSSKSGPVIAKREVKKEV
NEGIQALSNSEEEKKGVAASLLAPLLPEGIKEEEERWRRKVICKEEPVSEVKETSTTVEEATTIVKPQEIMLDNI
EDPSQEDLCSVQSGESEEEEEQDTLELELVLERKKAELRALEEGDGSVSGSSPRSDISQPASQDGMRRLMKRG
KWKMFRATSPESTSRSSSKTGRDTPENGETAIGAENSEKIDENSDKEMEVEESPEKIKVQTTPKVEEEQDLKFQ
IGELANTLTSKFEFLGINRQSI SNFHVLLQTETRIADWREGALNGNYLKRKLQDAEQLKQYEINATPKGWSCH
WDRDHRRYFYVNEQSGESQWEFPDGEESQEQENRDETLAKQTLKDKTGTDSNSTESSETSTGSLCKESFSG
QVSSSSLMPLTPFWTLLQSNVPVLQPPLPLEMPPPPPPPPPESPPPPPPPPPPAEDGEIQEVEMEDEGSEEPAPG
TEEDTPLKPSAQTTVVTSSVDSTISSSSSTKGIKRKATEISTAVVQRSATIGSSPVLYSQSAIATGHQAAGIG
NQATGIGHQTIPVSLPAAGMGHQARGMSLQSNYLGAAAAPAIMSYAECVPIGVTAPSLQPVQARGAVPTATIE
PPPPPPPPPPPPPPAPKMPPPEKTKKGRKDKAKKSKTKMPSLVKKWQSIQRELDEEDNSSSSEEDRESTAQKRIE
EWKQQQLVSGMAERNANFEALPEDWRARLKRRKMAPNT

1875/2825

FIGURE 1670

TTTCCTTGTCCAATAAGGTATTTAATATTCACCTTAGGGACTATTAGATGTCCCATTTCTCTTCTCTTTCAATTCT
CTTATCTCTTCTCACCCCAGTGTAACGAATCGCTACAGGTTTTTACCAAATGCTGCAGCAGTAGTTGGAAATGA
GTTATTTTGCATTACTAAAGTGTTCAATCACATTATCACGGGTCACATTTGTATATAACCAGGAGATGGCCAAAT
AACATCTACTGCAGTGATTTTGCAAATTCAGCATAGTCAATGTATCCATCATTGTTCTTGGCATCATCTCTCAAA
ACACCATCTATTATGTTAATCAGTTCATCTTCACTCATTAGTGGTGCCTGTTCACTCCCTTCCTCCTTATGGACA
TGAGTGATGGCTGTGGAGAGTTCTAAGCCATCAAGCAAATTATTGCCATCATAATCATGCATTTTGAAGTAATGG
AGCTGCAATTCTTGTTGGCGACATCTCCGCCTCTGGTTTGTGTGATGACACCTTCTAGATGCTCCATGATATGCTCT
TGGTCGTGCACTGTGTTCTTATCCAGGCCCATGCTGCCGGGTTGGGA

1876/2825
FIGURE 1671A

GGGAACTCCTTCCTCAGCCTCTCGTCAGCGCCGCTTCTCCTGGTTTCTCTTGACAGATGCTGCTGCTAGGGGTGGT
GGGAGCAGCCGTGGGACGCGTGGCCGGGAGCGGGGGGTGACAGCCTGGGATTCCGGGGGGCTTCTCTTCCCTTGTCCT
CCTCCTCTCCTCTCTATTCCCAGTGTGGCCGTGGCTGACACTAAAGACTTTGTAGCCATCAACCCGAGTGCAGTT
TCGATGGAAAATGAAGGTTGCACGTTTTCAAAAAATACCTAATGGTGAAAATGAGACAATGATTCTGTATTGAC
ATCAAAAAAGCAAGTGAATTACCAGTCAGTGAAGTTGCAAGCATTCTCCAAGCTGATCTTCAGAATGGTCTAAA
CAAATGTGAAGTTAGTCATAGGCGAGCCTTTTCATGGCTGGAATAAGTTTGATATTAGTGAAGATGAGCCACTGTG
GAAGAAGTATATTTCTCAGTTTAAAAATCCCCTTATTATGCTGCTTCTGGCTTCTGCAGTCATCAGTGTTTAAT
GCATCAGTTTGATGATGCCGTCAGTATCACTGTGGCAATACTTATCGTTGTTACAGTTGCCTTTGTTTCAGGAATA
TCGTTTCAGAAAAATCTCTTGAAGAATTGAGTAACTTGTGCCACCAGAATGCCATTGTGTGCGTGAAGGAAAATT
GGAGCATACACTTGCCCCGAGACTTGGTTCCAGGTGATACAGTTTGCCTTTCTGTTGGGGATAGAGTTCTGTCTGA
CTTACGCTTGTGTTGAGGCTGTGGATCTTTCCATTGATGAGTCCAGCTTGACAGGTGAGACAACGCCCTTGTCTAA
GGTGACAGCTCCTCAGCCAGCTGCAACTAATGGAGATCTTGCATCGAGAAGTAACATTGCCTTTATGGGAACACT
GGTCAGATGTGGCAAAGCAAAGGGTGTGTCATTGGAACAGGAGAAAATTCTGAATTTGGGGAGGTTTTTAAAT
GATGCAAGCAGAAGAGGCACCAAAAACCCCTCTGCAGAAGAGCATGGACCTCTTAGGAAAACAACCTTTCTTTTA
CTCCTTTGGTATAATAGGAATCATCATGTTGGTTGGCTGGTTACTGGGAAAAGATATCCTGGAAATGTTTACTAT
TAGTGTAAGTTTGGCTGTAGCAGCAATTCTGAAGGTCTCCCCATTGTGGTCACAGTGACGCTAGCTCTTGGTGT
TATGAGAAATGGTGAAGAAAAGGGCCATTGTGAAAAAGCTGCCATTGTTGAAACTCTGGGCTGCTGTAATGTGAT
TTGTTTCAGATAAACTGGAACACTGACGAAGAATGAAATGACTGTTACTCACATATTTACTTCAGATGGTCTGCA
TACTGAGGTTACTGGAGTTGGCTATAATCAATTTGGGGAAGTGATTGTTGATGGTGATGTTGTTTCATGGATTCTA
TAACCCAGCTGTTAGCAGAATTGTTGAGGCGGGCTGTGTGTGCAATGATGCTGTAATTAGAAAACAATACTCTAAT
GGGGAAGCCAACAGAAGGGGCCTTAATTGCTCTTGCAATGAAGATGGGTCTTGATGGACTTCAACAAGACTACAT
CAGAAAAGCTGAATACCCTTTTAGCTCTGAGCAAAAGTGGATGGCTGTTAAGTGTGTACACCGAACACAGCAGGA
CAGACCAGAGATTTGTTTTATGAAAGGTGCTTACGAACAAGTAATTAAGTACTGTACTACATACCAGAGCAAAGG
GCAGACCTTGACACTTACTCAGCAGCAGAGAGATGTGTACCAACAAGAGAAGGCACGCATGGGCTCAGCGGGACT
CAGAGTTCTTGCTTTGGCTTCTGGTCTGAACTGGGACAGCTGACATTTCTTGGCTTGGTGGGAATCATTGATCC
ACCTAGAAGTGGTGTGAAAGAAGCTGTTACAACACTCATTGCCCTCAGGAGTATCAATAAAAATGATTACTGGAGA
TTCACAGGAGACTGCAGTTGCAATCGCCAGTCGTCTGGGATTGTATTCCAAAACCTCCCAGTCAGTCTCAGGAGA
AGAAATAGATGCAATGGATGTTTCAGCAGCTTTCACAAATAGTACCAAAGGTTGCAGTATTTTACAGAGCTAGCCC
AAGGCACAAGATGAAAATTATTAAGTCGCTACAGAAGAACGGTTCAGTTGTAGCCATGACAGGAGATGGAGTAAA
TGATGCAGTTGCTCTGAAGGCTGCAGACATTGGAGTTGCGATGGGCCAGACTGGTACAGATGTTTGCAAAGAGGC
AGCAGACATGATCCTAGTGGATGATGATTTTCAAACCATAATGTCTGCAATCGAAGAGGGTAAAGGGATTATAA
TAACATTAAAAATTTCTGTTAGATTCCAGCTGAGCACGAGTATAGCAGCATTAACTTTAATCTCATTGGCTACATT
AATGAACTTTCTAATCCTCTCAATGCCATGCAGATTTTGTGGATCAATATTATTATGGATGGACCCCCAGCTCA
GAGCCTTGGAGTAGAACCAGTGGATAAAGATGTCATTCGTAAACCTCCTCGCAACTGGAAAGACAGCATTTTGAC
TAAAAACTTGATACTTAAAATACTTGTTCATCAATAATCATTGTTTGIGGGACTTTGTTTGTCTTCTGGCGTGA
GCTACGAGACAAATGTGATTACACCTCGAGACACAACAATGACCTTCACATGCTTTGTGTTTTTTCAGATGTTCAA
TGCATAAGTTCCAGATCCCAGACCAAGTCTGTGTTTGAGATTGGACTCTGCAGTAATAGAATGTTTTGCTATGC
AGTTCTTGGATCCATCATGGGACAATTACTAGTTATTTACTTTCTCCTCGCTTCAGAAGGTTTTTCAGACTGAGAG
CCTAAGCATACTGGATCTGTTGTTTCTTTTGGGTCTCACCTCATCAGTGTGCATAGTGGCAGAAATTATAAAGAA
GGTTGAAAGGAGCAGGGAAAAGATCCAGAAGCATGTTAGTTTCGACATCATCATCTTTTCTTGAAGTATGATGCAT
ATTGCATTATTTTATTGCAAACCTAGGAATTGCAGTCTGAGGATCATTTAGAAGGGCAAGTTCAAGAGGATATGA
AGATTTGAGAACTTTTTAATCTATTGACTAAAAATGAACATTAATGTTAAAGACTTAAGACTTTAACCCTGCT
GGCAGTCCCAAATGAAATTATGCAACTTTGATATCATATTCCTTGATTTAAATTGGCTTTTGTGATTGAGTGAAA
CTTTATAAAGCATATGGTCAGTTATTTAATTAATAAAGGCAAAACCTGAACCACCTTCTGCACTTAAAGAAGTCTA
ACAGTACAAATACACTATCTATCTTAGATAGATATATTTTTTTTTTATTTTTTAATATTGTACTATTTATGGTGGT
GGGGCTTCTTACTAATACACAAATAAATTTAATCATTTCAAAGGCATTCTATTTGGTTTAGAAGTTGATTCCCA
GGAGTGCCATATTTAGCTACTGTATTTCTTTTCTTGTAATGTAAGCAGCTCAGATACCATGTGCTATCATTT
TTGTATCAAGTTTTTTGCACAGGATGTGACCCTGTCAGATCACTGTTCTTTTCTTTTGTGATTGAAAAG

1877/2825
FIGURE 1671B

CCTATACTACAATTTGAAGTAAATTTTGTTCCTT

1878/2825
FIGURE 1672

MKVARFQKIPNGENETMIPVLTSKKASELPVSEVASILQADLQNLNKCEVSHRRAFHGWNKFDISEDEPLWKKY
ISQFKNPLIMLLLASAVISVLMHQFDDAVSITVAILIVVTVAFVQEYRSEKSLEELSKLVPPECHCVREGKLEHT
LARDLVPGDTVCLSVGDRVPADLRLFEAVDLSIDESSLTGETTPCSKVTAPQPAATNGDLASRSNIAFMGTLVRC
GKAKGVVIGTGENSEFGEVFKMMQAEAPKTPLQKSMDLLGKQLSFYSFGIIGIIMLVGWLLGKDILEMFTISVS
LAVAAIPEGLPIVVTVTLALGVMMVKKRAIVKKLP IVETLGCCNVICSDKTGTLTKNEMTVTHIFTS DGLHTEV
TGVGYNQFGEVIVDGDVHGFYNPAVSRIVEAGCVCNDAVIRNNTLMGKPTEGALIALAMKMGLDGLQQDYIRKA
EYFSSSEQWMAVKCVHRTQQDRPEICFMKGAYEQVIKYCTTYQSKGQTLTLTQQQORDVYQQEKARMGSAGLRVL
ALASGPPELGQLTFLGLVGIIDPPRTGVKEAVTTLIASGVSIKMITGDSQETAVAIASRLGLYSKTSQSVSGEEID
AMDVQQLSQIVPKVAVFYRASPRHKMKIIKSLQKNGSVVAMTGDGVNDAVALKAADIGVAMGQTGTDVCKEAADM
ILVDDDFQTIMSAIEEGKGIYNNIKNFVRFQLSTISIAALTSLATLMNFPNPLNAMQILWINIIMDGPPAQSLG
VEPVDKDVIRKPPRNWKDSILTKNLILKILVSSIIIVCGTLFVFWREL RDNVITPRD TTMTFTCFVFFDMFNALS
SRSQTKSVFEIGLCSNRMFCYAVLGSIMGQLLVYFPPLQKVFQTESLSILDLLFLLGLTSSVCIVAEIIKKVER
SREKIQKHVSSTSSSFLEV

1879/2825
FIGURE 1673

GCTCGGAGCCCGGAGCGTGCCTCGGCGGCCTGTGCGTTTTTCACCA**ATG**GAGCAGCTGAGCTCAGCAAAACACCCGCT
TCGCCTTGGACCTGTTCCCTGGCGTTGAGTGAGAACAATCCGGCTGGAAACATCTTCATCTCTCCCTTCAGCATT
CATCTGCTATGGCCATGGTTTTTCTGGGGACCAGAGGTAACACGGCAGCACAGCTGTCCAAGACTTTCATTTC
ACACGGTTGAAGAGGTTCAATCAAGATTCCAGAGTCTGAATGCTGATATCAACAAACGTGGAGCGTCTTATATTC
TGAAACTTGCTAATAGATTATATGGAGAGAAAACCTTACAATTTCTTCTGAGTTCTTGGTTTCGACTCAGAAAA
CATATGGTGCTGACCTGGCCAGTGTGGATTTTCAGCATGCCTCTGAAGATGCAAGGAAGACCATAAACCAGTGGG
TCAAAGGACAGACAGAAGGAAAAATTCCGGAAGTGTGGCTTCGGGCATGTTGATAACATGACCAAACCTTGTGC
TAGTAAATGCCATCTATTTCAAGGGAACTGGAAGGATAAATTCATGAAAGAAGCCACGACGAATGCACCATTCA
GATTGAATAAGAAAGACAGAAAACTGTGAAAATGATGTATCAGAAGAAAAAATTTGCATATGGCTACATCGAGG
ACCTTAAGTGCCGTGTGCTGGAAGTGCCTTACCAAGGCGAGGAGCTCAGCATGGTCATCTGCTGCCGGATGACA
TTGAGGACGAGTCCACGGGCCTGAAGAAGATTGAGGAACAGTTGACTTTGGAAAAGTTGCATGAGTGGACTAAAC
CTGAGAATCTCGATTTTCAATGAAGTTAATGTCAGCTTGCCCGAGGTTCAAACCTGGAAGAGAGTTACACTCTCAACT
CCGACCTCGCCCGCCTAGGTGTGCAGGATCTCTTTAACAGTAGCAAGGCTGATCTGTCTGGCATGTCAGGAGCCA
GAGATATTTTTATATCAAAAATTGTCCACAAGTCATTTGTGGAAGTGAATGAAGAGGGAACAGAGGCGGCAGCTG
CCACAGCAGGCATCGCAACTTTCTGCATGTTGATGCCCCGAAGAAAAATTTCACTGCCGACCATCCATTCTTTCT
TTATTCGGCATAATTCCTCAGGTAGCATCCTATTCTTGGGGAGATTTTCTTCCCCT**TAGA**AAGAAAGAGACTGTAG
CAATACAAAAATCAAGCTTAGTGCTTTATTACCTGAGTTTTTAATAGAGCCAATATGTCTTATATCTTTACCAAT
AAAACCACTGTCCAGAAAAA

1880/2825
FIGURE 1674

MEQLSSANTRFALDLFLALSENNPAGNIFISPFSSISSAMAMVFLGTRGNTAAQLSKTFHFNTVEEVHSRFQSLNA
DINKRGASYILKLANRLYGEKTYNFLPEFLVSTQKTYGADLASVDFQHASEDARKTINQWVKGQTEGKIPELLAS
GMVDNMTKLVLVNAIYFKGNWKDKFMKEATTNAPFRLNKKDRKTVKMMYQKKKFAYGYIEDLKCRVLELPYQGEE
LSMVILLPDDIEDESTGLKKIEEQLTLEKLHEWTKPENLDFIEVNVSLPRFKLEESYTLNSDLARLGVQDLFNSS
KADLSGMSGARDIFISKIVHKSFVEVNEEGTEAAAATAGIATFCMLMPEENFTADHPFLFFIRHNSSGSILFLGR
FSSP

1881/2825
FIGURE 1675A

GCCGCGTGCGTCTTGCCCGGAGCCGGCGGGACATGCCCGGAGCGCGCGCTGGAGCGGCGCGAGGAGGAGGCGAAC
GTGGTGCTCACCGGGACGGTGGAGGAGATCCTCAACGTGGACCCGGTGCAGCACACGTACTCCTGCAAGGTTCCG
GTCTGGCGGTACTTGAAGGGCAAAGACCTGGTGGCCCCGGGAGAGCCTGCTGGACGGCGGCAACAAGGTGGTGATC
AGCGGCTTTGGAGACCCCTCATCTGTGACAACCAGGTGTCCACTGGGGACACCAGGATCTTCTTTGTGAACCTT
GCACCCCATACCTGTGGCCAGCCACAAGAACGAGCTGATGCTCAACTCCAGCCTCATGCGGATCACCTTGC
AACCTGGAGGAGGTGGAGTTCTGTGTGGAAGATAAACCCGGGACCCACTTCACTCCAGTGCCCTCCGACGCCTCCT
GATGCGTGCCGGGGAATGCTGTGCGGCTTCGGCGCCGTGTGCGAGCCCAACGCGGAGGGGCGGGGCGGGCGTCC
TGCCTCTGCAAGAAGAGCCCGTGCCCCAGCGTGGTGGCGCCTGTGTGTGGGTGCGACGCCTCCACCTACAGCAAC
GAATGCGAGCTGCAGCGGGCGCAGTGCAGCCAGCAGCGCCGCATCCGCCTGCTCAGCCGCGGGCCGTGCGGCTCG
CGGGACCCCTGCTCCAACGTGACCTGCAGCTTCGGCAGCACCTGTGCGCGCTCGGCCGACGGGCTGACGGCCTCG
TGCTGTGCCCCGCGACCTGCCGTGGCGCCCCCGAGGGGACCGTCTGCGGCAGCGACGGCGCCGACTACCCCGGC
GAGTGCCAGTCTCTGCGCCGCGCCTGCGCCCCGCCAGGAGAATGTCTTCAAGAAGTTCGACGGCCCTTGTGACCCC
TGTCAGGGCGCCCTCCCTGACCCGAGCCGAGCTGCCGTGTGAACCCGCGCACGCGGCGCCCTGAGATGCGCCTA
CGGCCCCGAGAGCTGCCCTGCCCGGCAGGCGCCAGTGTGTGGGGACGACGGAGTACCTACGAAAACGACTGTGTC
ATGGGCCGATCGGGGGCGGCCCGGGGTCTCCTCCTGCAGAAAGTGCCTCCGGCCAGTGCCAGGGTTCGAGACCAG
TGCCCGGAGCCCTGCCGTTCAATGCCGTGTGCTGTCCCGCCGTGGCCGTCCCCGCTGCTCCTGCGACCCGCTC
ACCTGTGACGGGGCCTACAGGCCCGTGTGTGCCCAGGACGGGCGCACGTATGACAGTGATTGCTGGCGGCAGCAG
GCTGAGTGCCGGCAGCAGCGTGCCATCCCCAGCAAGCACCAGGGCCCGTGTGACCAGGCCCGTCCCCATGCCTC
GGGGTGCAGTGTGCATTTGGGGCGACGTGTGCTGTGAAAGAACGGGCAGGCAGCGTGTGAATGCCTGCAGGCGTGC
TCGAGCCTCTACGATCCTGTGTGCGGCAGCGACGGCGTCACATACGGCAGCGCGTGCAGAGCTGGAGGCCACGGCC
TGTACCCTCGGGCGGGAGATCCAGGTGGCGCGCAAAGGACCCTGTGACCGCTGCGGGCAGTGCCGCTTTGGAGCC
CTGTGCGAGGCGGAGACCGGGCGCTGCGTGTGCCCCCTCTGAATGCGTGGCTTTGGCCCAGCCCGTGTGTGGCTCC
GACGGGCACACGTACCCAGCGAGTGATGCTGCACGTGCACGCCTGCACACACCAGATCAGCCTGCACGTGGCC
TCAGCTGGACCCTGCGAGACCTGTGGAGATGCCGTGTGTGCTTTTGGGGCTGTGTGCTCCGCAGGGCAGTGTGTG
TGTCCCCGGTGTGAGCACCCCCCGCCCGCCCGTGTGTGGCAGCGACGGTGTACCTACGGCAGTGCCTGCGAG
CTACGGGAAGCCGCTGCCTCCAGCAGACACAGATCGAGGAGGCCCGGGCAGGGCCGTGCGAGCAGGCCGAGTGC
GGTTCCGGAGGCTCTGGCTCTGGGGAGGACGGTGACTGTGAGCAGGAGCTGTGCCGGCAGCGCGGTGGCATCTGG
GACGAGGACTCGGAGGACGGGCGGTGTGTCTGTGACTTCAGCTGCCAGAGTGTCCAGGCAGCCCGGTGTGCGGC
TCAGATGGGGTCACCTACAGCACCGAGTGTGAGCTGAAGAAGGCCAGGTGTGAGTCACAGCAGGGGCTCTACGTA
GCGGCCCCAGGGAGCCTGCCGAGGCCCCACCTTCGCCCCGCTGCCGCTGTGGCCCCCTTACACTGTGCCCAGACG
CCCTACGGCTGTGCCAGGACAATATCACCGCAGCCCCGGGGCGTGGGCCCTGGCTGGCTGCCCCAGTGCCCTGCCAG
TGCAACCCCCATGGCTCTTACGGCGGCACCTGTGACCCAGCCACAGGCCAGTGCTCCTGCCGCCAGGTGTGGGG
GGCCTCAGGTGTGACCGCTGTGAGCCTGGCTTCTGGAACCTTCGAGGCATCGTCACCGATGGCCGGAGTGGCTGT
ACACCCTGCAGCTGTGATCCCCAAGGCGCCGTGCGGGATGACTGTGAGCAGATGACGGGGCTGTGCTCGTGTAAG
CCCGGGGTGGCTGGACCCAAGTGTGGGCAGTGTCCAGACGGCCGTGCCCTGGGCCCCGCGGGCTGTGAAGCTGAC
GCTTCTGCGCCTGCGACCTGTGCGGAGATGCGCTGTGAGTTCGGTGC GCGGTGCGTGGAGGAGTCTGGCTCAGCC
CACTGTGTCTGCCCCGATGCTCACCTGTCCAGAGGCCAACGCTACCAAGGTCTGTGGGTGAGATGGAGTCACATAC
GGCAACGAGTGTGAGCTGAAGACCATCGCCTGCCGCCAGGGCCTGCAAATCTCTATCCAGAGCCTGGGCCCCGTGC
CAGGAGGCTGTTGCTCCAGCACTACCCGACATCTGCCTCCGTGACTGTGACCACCCAGGGCTCCTCCTGAGC
CAGGCACTGCCGGCCCCCCCCCGGCGCCCTCCCCCTGGCTCCCGAGCAGTACCGCACACAGCCAGACCAACCCCTCCG
CCCTCATCGCGACCTCGGACCACTGCCAGCGTCCCCAGGACCACCGTGTGGCCCCGTGCTGACGGTGCCCCCACG
GCACCCCTCCCCTGCACCCAGCCTGGTGGCGTCCGCCTTTGGTGAATCTGGCAGCACTGATGGAAGCAGCGATGAG
GAACTGAGCGGGGACCAGGAGGCCAGTGGGGGTGGCTCTGGGGGGCTCGAGCCCTTGGAGGGCAGCAGCGTGGCC
ACCCCTGGGGCACCTGTGAGAGGGGCTTCTGCTACAACCTCCGCGTTGGGCTGCTGCTCTGATGGGAAGACGCCC
TCGCTGGACGCAGAGGGCTCCAACCTGCCCCGCCACCAAGGTGTTCCAGGGCGTCTGGAGCTGGAGGGCGTCGAG
GGCCAGGAGCTGTTCTACACGCCCCGAGATGGCTGACCCCAAGTCAGAAGTGTTCGGGGAGACAGCCAGGAGCATT
GAGAGCACCCCTGGACGACCTCTTCCGGAATTGAGACGTCAAGAAGGATTTCCGGAGTGTCCGCTTGCGGGACCTG
GGGCCCCGCAAAATCCGTCCGCGCCATTGTGGATGTGCACTTTGACCCACACAGCCTTCAGGGCACCCGACGTG

1882/2825
FIGURE 1675B

GCCCCGGGCCCTGCTCCGGCAGATCCAGGTGTCCAGGCGCCGGTCCCTTGGGGGTGAGGCGGCCGCTGCAGGAGCAC
GTGCGATTTATGGACTTTTACTGTTTTCTGCGTTTATCACGGGGGCCACGTGAGGAGCCATTGCTGCGGGAGCC
ACGGCCAGAGCCACCCTGCATCGCGCCTGCCGTCTCTGCTGTGACCCCTCGGGCCCCGCACCCAGTCACACA
AGCCAGCCCGTTGCCAAGACCACGGCAGCCCCACCACACGTGCGCCCCCACCCTGCCCCAGCCGTGTGCCC
GGACGTGCGCCCCCGGCCCCAGCAGCCTCCAAAGCCCTGTGACTCACAGCCCTGCTTCCAGGGGGGACCTGC
CAGGACTGGGCATTGGGCGGGGGCTTACCTGCAGCTGCCCCGCAGGCAGGGGAGGCGCCGTCTGTGAGAAGGTG
CTTGGCGCCCCCTGTGCCGGCCTTCGAGGGCGCTCCTTCTGCGCTTCCCCACCCTCCGCGCCTACCACACGCTG
CGCCTGGCACTGGAATTCGGGGCGCTGGAGCCTCAGGGGCTGCTGCTGTACAATGGCAACGCCCGGGGCAAGGAC
TTCCTGGCATTGGCGCTGCTAGATGGCCGCGTGCAGCTCAGGTTTGACACAGGTTGCGGGCGGGCGGTGCTGACC
AGTGCCGTGCCGGTAGAGCCGGGCCAGTGGCACCGCCTGGAGCTGTCCCGGCACTGGCGCCGGGGCACCCCTCTCG
GTGGATGGTGAGACCCCTGTTCTGGGCGAGAGTCCAGTGGCACCGACGGCCTCAACCTGGACACAGACCTCTTT
GTGGGCGGCGTACCCGAGGACCAGGCTGCCGTGGCGCTGGAGCGGACCTTCGTGGGCGCCGGCCTGAGGGGGTGC
ATCCGTTTGTGAGGTCAACAACCAGCGCCTGGAGCTTGGCATTGGGCGGGGGGTGCCACCCGAGGCTCTGGC
GTGGGCGAGTGCAGGGGACACCCCTGCCTGCCAACCCCTGCCATGGCGGGGCCCCATGCCAGAACCTGGAGGCT
GGAAGGTTCCATTGCCAGTGCCCGCCCGCGCGCTCGGACCAACCTGTGCCGATGAGAAGAGCCCTGCCAGCCC
AACCCCTGCCATGGGGCGGGCGCCCTGCCGTGTGCTGCCCCAGGGGTGGTGTCTAGTGCAGTGCCCCCTGGGGCGT
GAGGGCACCTTCTGCCAGACAGCCTCGGGGACAGGACGGCTCTGGGGCCCTTCTGGCTGACTTCAACGGCTTCTCC
CACCTGGAGCTGAGAGGCTGCACACCTTTGCACGGGACCTGGGGGAGAAGATGGCGCTGGAGGTGCTGTTCTCTG
GCACGAGGCCCCAGCGGCCCTCCTGCTCTACAACGGGCGAGAAGACGGACGGCAAGGGGGACTTCGTGTGCTGGCA
CTGCGGGACCGCCGCTGGAGTTCCGCTACGACCTGGGCAAGGGGGCAGCGGTATCAGGAGCAGGGAGCCAGTC
ACCCTGGGAGCCTGGACCAGGGTCTCACTGGAGCGAAACGGCCGCAAGGTGCCCTGCGTGTGGGCGACGGCCCC
CGTGTGTTGGGGGAGTCCCCGTTCCGCACACCGTCTCTCAACCTGAAGGAGCCGCTCTACGTAGGGGGCGCTCCC
GACTTCAGCAAGCTGGCCCGTGTGCTGCTGCCGTGTCTCTGCTTCGACGGTGCCATCCAGCTGGTCTCCCTCGGA
GGCCGCCAGCTGCTGACCCGGAGCACGTGCTGCGGCAGGTGGACGTACGTCTTTGAGGTACCCCTGCACC
CGGGCCTCAGGCCACCCCTGCCTCAATGGGGCCTCCTGCGTCCCGAGGGAGGCTGCCTATGTGTGCTGTGTCCC
GGGGGATTCTCAGGACCGCACTGCGAGAAGGGGCTGGTGGAGAAGTCAGCGGGGGACGTGGATACTTGGCCCTT
GACGGGCGGACCTTTGTGAGTACCTCAACGCTGTGACCGAGAGCGAGAAGGCACTGCAGAGCAACCACTTTGAA
CTGAGCCTGCGCACTGAGGCCACGCAGGGGCTGGTGTCTGAGTGGCAAGGCCACGGAGCGGGCAGACTATGTG
GCACTGGCCATTGTGGACGGGCACCTGCAACTGAGCTACAACCTGGGCTCCAGCCCGTGGTGTGCGTTCCACC
GTGCCCGTCAACACCAACCGCTGGTTGCGGGTGTGTCACATAGGGAGCAGAGGGAAGGTTCCCTGCAGGTGGGC
AATGAGGCCCCCTGTGACCGGCTCCTCCCCGCTGGGCGCCACGCAGCTGGACACTGATGGAGCCCTGTGGCTTGGG
GGCCTGCCGGAGCTGCCCCTGGGCCCAGCACTGCCCAAGGCCTACGGCACAGGCTTTGTGGGCTGCTTGGGGAT
GTGGTGGTGGGCCGGCACCCGCTGCACCTGCTGGAGGACGCGTCACCAAGCCAGAGCTGCGGCCCTGCCCCACC
CCATGAGCTGGCACCAGAGCCCCGCGCCCGCTGTAATTATTTTCTATTTTGTAACTTGTGCTTTTGTATATG
ATTTTCTTGCTGAGTGTGGCCGAGGACTGCTGGCCCGGCTCCCTTCCGTCCAGGCAGCCGTGCTGCAGAC
AGACCTAGTGCTGAGGGATGGACAGGCGAGGTGGCAGCGTGGAGGGCTCGGCGTGGATGGCAGCCTCAGGACACA
CACCCCTGCCTCAAGGTGCTGAGCCCCGCTTGCAGTGCAGCTGCCACGGTGTCCCGCCGGGAAGCAGCCC
CGGCTCCTGAATCACCCCTCGCTCCGTGAGGCGGGACTCGTGTCCCAAAAAGGAAGGGGCTGCTGAGGTCTGATGG
GGCCCTTCTCCGGGTGACCCACAGGGCCTTTCCAAGCCCCCTATTTGAGCTGCTCCTTCTGTGTGTGCTCTGG
ACCCTGCCTCGGCCCTCTGCGCCAATACTGTGACTTCCAAACAATGTTACTGCTGGGCACAGCTCTGCGTTGCTC
CCGTGCTGCTGCGCCAGCCCCAGGCTGCTGAGGAGCAGAGGCCAGACCAGGGCCGATCTGGGTGTCTTGACCCCT
CAGCTGGCCCTGCCAGCCACCCTGGACATGACCGTATCCCTCTGCCACACCCAGGCCCTGCGAGGGGCTATCG
AGAGGAGCTCACTGTGGGATGGGGTTGACCTCTGCCGCTGCTGGGTATCTGGGCTGGCCATGGCTGTGTTCT
TCATGTGTTGATTTTATTTGACCCCTGGAGTGGTGGGTCTCATCTTCCATCTCGCTGAGAGCGGCTGAGGGC
TGCCTCACTGCAAATCCTCCCCACAGCGTCAGTGAAAGTCGTCTTGTCTCAGAAATGACCAGGGGCCAGCCAGTG
TCTGACCAAGGTCAAGGGGCGAGGTGCAGAGGTGGCAGGGATGGCTCCGAAGCCAGAA

1883/2825
FIGURE 1676

AACVLPGAGGTCPERALERREEEANVVLGTGTVEEILNVDPVQHTYSCKVRVWRYLK GKDLVARESLLDGGNKVVI
SGFGDPLICDNQVSTGDTRIFFVNPAPPYLWPAHKNELMLNSSLMRITLRNLEEEVEFCVEDKPGTHFTVPVPTPP
DACRGMLCGF GAVCEPNAEGPGRASCVCKKSPCPSVVAPVCGSDASTYSNECELQRAQCSQQRRI RL LSRGPCGS
RDPCSNVTC SFGSTCARSADGLTASCLCPATCRGAPEGTVCSDGADYPGECQLLRACARQENVFKFDGFCDF
CQGALPDP SRSCRNVNPRTRRP EMRLRPESCPARQAPVCGDDGVTYENDCVMGRSGAARGLLLQKVRSGQCQGRDQ
CPEPCR FNAVCLSRGRPRCSDRVTC DGAYRPVCAQDGRTYSDCWRRQQAECRQQR AIPSKHQGPCDQAPSPCL
GVQCAF GATCAVKNGQAACECLQACSSLYDPVCGSDGVTYGSACELEATACTLGREIQVARKGPCDRCGQCRFGA
LCEAETGRVCVPSECV ALAQPVCGSDGHTYPTSECM LHVHACTHQI SLHVASAGPCETCGDAVCAFGAVCSAGQCV
CPRCEHPPPGPVCGSDGVTYGSACELREAACLQQTQIEEARAGPCEQAECGSGGSGSGEDGDCEQELCRQRGGIW
DEDS EDGFCV CDFSCQSVPGSPVCGSDGVTYSTECELKKARCESQRGLYVAAQGACRGPTTFAPLPPVAPLHCAQT
PYGCCQDNIT AARGVGLAGCPSACQCNPHGSYGGTCDPATGQCSCRPGVGGRLC DRCEPGFWNFRGIVTDGRSGC
TPCSCDPQ GAVRDDCEQMTGLCSCKPGVAGPKGCQCPDGRALGPAGCEADASAPATCAEMRCEFGARCVEESGSA
HVC PMLTCEANATKVCSDGVTYGNECQLKTIACRQGLQISIQSLGPCQEAVAPSTHPTSASVTVTTPG LLLS
QALPAPP GALFLAPSSTAHSQTT PPPSSRPRTTASVPRTTVWPVLTVPPTAPSPAPSLVASAFGESGSTDGSSDE
ELSGDQEASGGGSGGLEPLEGSSVATPGPPVERASCYNSALGCCSDGKTPSLDAEGSNCPATKVFQGVLELEGVE
GQELFYTP EMADPKSELFGETARSIESTLDDLF RNSDVKKDFRSVRLRDLGPGKSVRAIVDVHFDPTTA FRAPDV
ARALLRQIQVSRRRSLGVRRLQEHVRFMDFDWFP AFITGATSGAIAAGATARATTASRLPSSAVTPRAPHP SHT
SQPVAKTTAAPTTRRPPTTAPSRVPGRPPAPQ QPPKPCDSQPCFHGGTCQDWALGGGFTCSCPAGRGGA VCEKV
LGAPVPAFEGRSFLAFPTLRAYHTLR LALEFRALEPQGLLLYNGNARGKDFLALALLDGRVQLRFDTGSGPAVLT
SAVPVEPGQWHRLELSRHWRRTLSVDGETPVLGESPSGTDGLNLDTDLFVGGVPEDQA AVALERTFVGAGLRGC
IRLLDVNNQRLELGIGPGAATRSGVGECGDHPCLPNPFCHGGAPCQNL EAGRFHCQCPPGRVGPTCADEKSPCQP
NPCHGAAPCRVLP EGGQAQCECPLGREGTFCQTASGQDGS GFPLADFN GF SHLELRGLHTFARDLGEKMALEV VFL
ARGPSGLLLYNGQKTDGKGDFVSLALRRRLEFRYDLGKGAAVIRSREPVT LGAWTRVSLERNGRKGALRVGDGP
RVLGESPVPHTVLNLKEPLYVGGAPDFSKLARA AAVSSGFDGAIQLVSLGGRQLLTPEHVLRQVDVTSFAGHPCT
RASGHPCLNGASCVPREAAVCLCPGGFSGPHCEKGLVEKSAGDVT LAFDGRTFVEYLN AVTESEKALQSNHFE
LSLRTEATQGLVLWSGKATERADYVALAIVDGHLQLSYNLGSQPVVLRSTVPVNTNRWLRVVAHREQREGSLQVG
NEAPVTGSSPLGATQLD TDGALWLGLPELPVGPALPKAYGTGFVGCLRD

1884/2825
FIGURE 1677

GGCTTACAGGAGGGCAGCTCTGCAGTTGGGAGGGGCACCGTCCGGAGGAGACCAGGCCTCTACACACCCCCCACT
CTACTTATCATCCCTGCTCACACACCCTTGTCCAAGGCTTTATGCATCGGATTTATTTTTCCAAATCAAGAGGAC
AGTGATAGATGCATTTTCCCCAGGCTGTCTCAGAAAGGTCGCTAAATGTATACTGTTGTCAGAATTGCTGAGATC
TCCCCCACTTTTGGTTTTTGCAGCAGTAAAACTCTTCCACTGTGACTTATTTTCTCTCTCAGGCAGCCAGCC
ACCTGGTCCCTTGTGCTGACTCTAGCACAGTGGCCAGGATCCAATACGAGTCCAGGGGTGACCGCAGGATGGTGG
GGGCAGCGGGCTTCTCCACCTACCCAGCCACCAAGGCCCTGACGCACTGCCTCCTGCACCTTCAGCACATCCCT
GTGCACAGCTGGAAGGGTGCATGGCCCCGCTCACCTTGTTCAGATGGGTGGAAACGCTGATGATAACGAGTCCTC
CCTGCCGTGCCCTGCCACGGAGCAGGCATTGTGAAGTGGCTGGTGTTCAGTCCCACGTGGCATGGCTCCAG
CCCAACCCACAGTGGAGACTGGAGACAGGGCAATGAGTCTGGTGGGGGCACGTGGACATGCCCCATAGGGGGCCC
CACCCAGACTTAACAGGCAAGGTCCTGGGCATTGCGCGACGCAGGACTCAATGCTAAAGCAAGCCTGCCTGGCTC
TGTGCCAGGGCCCCCTCTTCTGATTTACACATCCCATTTTTACACAGACCCTTCCTTCTTAATAAAGGCTGACAGT
TCTGTTGGCAGCCAAGAACCCACACCATGAAGACAGGGAGTGAGGGGCCTTTGTGCCAACTCCAGCACAGCTGC
GTTCTGGGGTGTGTGAGAGGCATGTTCTGTCTGTGCGCTGGTGGTCTCGTGAGACAGTTCAGAGGACGGGGAAA
TTGCAGGGTGGTGGGGCGTGAGGCTTATATGTGGAAGTGTGAGAGTTCGCCTGCAGACGGATCTGGATATAC
ACTATGTATAATTGTTACGTGTAATTTAAAAATATATCTGTTTGCCATCGTCATGAGAAGATTATATGTAAGGCTC
TGAAGGGAGAGGGAGATGTACATTCTGCCAGGCTCCTGGGGACCTTATCCGAGTCATGAAATTGATGACTGTTGA
TCCAGTGGTGCAAGAAGCTACACTCCATGTGTTCATCACGCTTATGACTCCTAATGTATTTTTAAGGCAAAAAATG
TCAGCCGACTCCATCTTACCCCTCGATTCTCGAGTCCAGCCTTTCTGTGCCAGTGCTTCACTGAGCCACAACG
CTCTCGCCATCGGGACCCGGCTGGGCCTGGAGTCTCGGGGCACAGTTGCCATGGAGCCCTCCTGGGTCATTCTAC
AAATGTGCTGAGTGCCAGCTGAAAACCCACAGGAGATGGAGTACCTTGGCCAAGCTTAAAGAGAAGATTTTCTC
AGGGTATTTATTAGTGTGTCCAGCAGGGTCAGGAAGCAGGATGGAAAGATGCATTACAGACTGTTAATTTATTAAC
AAGGCAAATGATTTTGTGTTTCTTGATGACAGACTATTAAGTTTGGGACTTATTTTCCCATTTGAGAAGTTATAA
TATATATTTAAGATGATAAGTTTCTGCTTAAGTTGTGCCTTTCAGCTTCAATGAGTTTAAGGAGCACTAAGGGT
AATGATACCAATGAGGGTTGGTTTATTATCAAACCTGAATAGCTGTGGTTTCTCCAGTAAATATTTTCTTCTACT
GAACATGGAGCCATTATTAAGAGTTGTGTGTTTTTTATTATGTACATTTGTATATTTTTTTGCTTGTGTTGATGTT
CTATTTTTCTAATAGTTTTCTTTTAGTTTCTTAAAGTTGTGATACTAGATTTAGATTCTGATGCTAACTGCAAT
CAGGTGGTCTCTGCTGGGTCTCTCCTGCTTTTATTTTACTTTAAGGACAAGTGTAGTTGTGCTCCACCACCTTT
CAAAAAATGTGAAACTGCCCTGCCTCCCTTTTTGCTGACAACACTGTGTACATTGACCACTTCCTACCATACTT
TATGTTGTAAAATCAAACCTCTTTTGTGGTACATTATCTCATGCTTCTGCAAATTCGAATAAATTCTATGGCTTCC
AAAAAAAAAAAAAAAA

1885/2825
FIGURE 1678

MKLMTVDFVVQEATLHVSSRL

1886/2825

FIGURE 1679

GCCTCACCACAGAGGCAAGACAAGGGTCCATATCGCGGCATCCGGCTCCCGCCCGTCTTCAGGAGAGAAAAGAAAA
AATAAAATATACCTTGGGGAAGTTGTACCTGCCAGAATTAGTAAGAGCTTTCTTTAAGAAGACATTTGTCAAACCTC
AACAAATTGAAGGTTAACACCTTAAGAGTTGTAGTTACTGACCAGAAATATGGACAGACTTCTTAGACTTGGAGG
AGGTATGCCTGGACTGGGCCAGGGGCCACCTACAGATGCTCCTGCAGTGGACACAGCAGAACAAGTCTATATCTC
TTCCCTGGCACTGTTAAAAATGTTAAAACATGGCCGTGCTGGAGTTCCAATGGAAGTTATGGGTTTGATGCTTGG
AGAATTTGTTGATGATTATAACCGTCAGAGTGATTGATGTGTTTGCTATGCCACAGTCAGGAACAGGTGTCAGTGT
GGAGGCAGTTGATCCAGTGTTCCAAGCTAAAATGTTGGATATGTTGAAGCAGACAGGAAGGCCGGAGATGGTTGT
TGGTTGGTATCACAGTCACCCTGGCTTTGGTTGTTGGCTTTCTGGTGTGGATATCAACACTCAGCAGAGCTTTGA
AGCCTTGTCGGAGAGAGCTGTGGCAGTGGTTGTGGATCCCATTGAGAGTGTAAGGAAAGGTTGTTATTGATGC
CTTCAGATTGATCAATGCTAATATGATGGTCTTAGGACATGAACCAAGACAAACAACCTTCGAATCTGGGTCACCTT
AAACAAGCCATCTATCCAGGCATTAATTCATGGACTAAACAGACATTATTACTCCATTACTATTAATACTATCGGAA
AAATGAACTGGAACAGAAGATGTTGCTAAATTTGCATAAGAAGAGTTGGATGGAAGGTTTGACACTTCAGGACTA
CAGTGAACATTGTAAACACAATGAATCAGTGGTAAAAAGAGATGTTGGAATTAGCCAAGAATTACAATAAGGCTGT
AGAAGAAGAAGATAAGATGACACCTGAACAGCTGGCAATAAAGAATGTTGGCAAGCAGGACCCCAAACGTCATTT
GGAGGAACATGTGGATGTACTTATGACCTCAAAATATTGTCCAGTGTTTAGCAGCTATGTTGGATACTGTCGTATT
TAAATTAA

1887/2825
FIGURE 1680

MDRLLRLGGGMPGLGQGPPTDAPAVDTAEQVYISSLALLKMLKHGRAGVPMEVMGLMLGEFVDDYTVRVIDVFAM
PQSGTGVSVEAVDPVFQAKMLDMLKQTGRPEMVVGWYHSHPGFGCWLSGVDINTQQSFEALSERAVAVVVDPIQS
VKGKVVIDAFRLINANMMVLGHEPRQTTSNLGHLNKPSIQALIHGLNRHYYSITINYRKNELEQKMLLNHKKSW
MEGLTLQDYSEHCKHNESVVKEMLELAKNYNKAVEEEDKMTPEQLAIKNVGKQDPKRHLEEHVDVLMTSNIVQCL
AAMLDTVVFK

1888/2825
FIGURE 1681A

AAAATACTTGCCCTTTGGAAAAAATCATTCTGGCGTCCACATTCAGACTGGTTTAGAGGAGAGTAATACTGAAG
ACATGCCCCCGGAATCAAGGTAGCAATTGCGGAGATGAAAAGAAATGAGTCCAAAAGATGCTTAAATGTGACCA
TTGAACAGGATTTGACTCATTGGATATGAGGCCATGGAGCAGTGTCTGGCTAGGTGGATGGATGTTGGTGCTGTT
TAGTTAAATAGGAACTGGAAGAGAAGCAGGCTTGCAAGAATGGTAATATTTTGGACGTGTAACCTGTCTGGCAA
GATGTTGAAGAGGTAAAGGAGGCAGCACAGCATCATGGGCCTTGAGGCAGAAAGCCGCTTTGATTTACTCAGAAC
ACCAAATCAGTCTCCATTTTCTTGACTCAGACTACACCCAAGAGATTGCTTCCTTCCTGTGCTTCCTGGCCACT
TGCTACTCTAGCTAGGAAGATCTGCCTCCCTTAGCTGAAGTCTAAGATGTGTAGCTTATTGATGCCTCTCCTCTT
CTTGTTCTGCTGTTGCTGAATATAATGGGGATGCCAGGGCAGACATAACCATTCAACTTGAATCTTCCTTACCCAC
TTTGTATAGTCTTACATGTCATTGATACCTTGTTTTCTGGTACGCCTAAAAGGAGTAGAACTTCAAGTGGTATTT
AAAAGCTTTAAGAAAAGTCAAATTTTTACTTTTTCTTCCCATCTGAGGCATGGATTTATTTCTTTTTTAAAGAA
ATCCAAATTTTTTAAAAGAAGGGATCTTATTTTTTAAAACGAAGATCGATAATATCTACTATGTACTAAATGTCATT
CTTTAAAAGTTGTTCCCTCATAATTTAGTAAATTACTTCCTTTTTTAAAAAAGGAAAGAAAGAGTGTTTGTCTT
ACAGGCTAACATCACAAACAATAAGTTTCTTCTCATCCATCTCCATTTATAAACTAGTGTGACTGTCTTCTGAGC
ACAGTATTAAACCTGGACAGGGAGAGGGAGGGTGTTAGAGAATGAGAGGGAAAGAGAGAGAATACCTACATATAA
GGTGACCCATAAGAAAAGCCTTTCACCCCTTCGGAAGATCTTTTCATTTTCATTTTTCTTTTTTCAAACACCAACT
TGTACCAGAGGGAAGATCTTTTTTTTAAAAGCGTTTCACTAAAATTTGTAAGGAAATAATGAGCTAGATAAAATAT
TACAGTGTTTATTTAATGAATTTACTCATATTTAAAATAATATCTAAAAAGAGTAATTTAGGAATATTGAGGCAA
TGAGACTTGAAGGTTATAAATAGTGGCAGTGAGAAAAGGAATATTATAGATAAGCTGTTGAAAAGAAAAGATGCT
AAGTTTTCTAGTGCTTCCTTCTGTTTCCAAGGGATTATAGAAATCGGAGTTTGTTTGACCTGTTTCACAGGCATC
TCCTTTGTGGACTCATTTGTGTCTCTTCCTTAGGCTAATAGTCACCATTTATCATGGACGGTTGTCATGAGTGTTG
AAGCACACTTAACTGCTTCGTCAGAGGGTACTTGGCATCACCGGTGCACAGCTGGTGTCTTAGCAGGAGACTAA
CTAGCTGACACACCGTGCTTTGTTAGCCTAATAATCTTATTTGTTAAAACCTTGCCATTTGTTGGATTTTTCTATT
TTACCCCATTTATAAACTTCTTATTGAGATCAGATGACTTCTGAATAGCATTGCTGTATTTTTTCCAAGGTAAAGA
ATATCTTTTTTCAGATTTTTCTTTCTTTCTTTAATGTCAGAAATAGAAGAAATCTTTTCTACCGACCTTGTGCCAG
GAGATGTCATGGTCATTCCATTAAATGGGACAATAATGCCTTGTGATGCTGTGCTTATTAATGGTACCTGCATTG
TAAACGAAAGCATGTTAACAGGAGAAAGTGTTCCAGTGACAAAGACTAATTTGCCAAATCCTTCAGTGGATGTGA
AAGGAATAGGAGATCAATTATATAATCCGGAACACATAAACGACATACTTTGTTTTGTGGGACAACCTGTTATTC
AGACTCGTTTCTACACTGGAGAACTCGTCAAAGCCATAGTTGTTAGAACAGGATTTAGTACTTCCAAAGGACAGC
TTGTTTCGTTCCATATTGTATCCCAAACCAACTGATTTTAACTCTACAGAGATGCCTACTTGTCTTACTATGTC
TTGTGGCAGTTGCTGGCATTGGGTTTATCTACACTATTATTAATAGCATTTTAAATGAGGTACAAGTTGGGGTCA
TAATTATCGAGTCTCTTGATATTATCACAATTACTGTGCCCCCTGCACTTCCTGTCTGCAATGACTGCTGGTATTG
TGTATGCTCAGAGAAGACTGAAAAAATCGGTATTTTCTGTATCAGTCTCAAAGAATAAATATTTGTGGACAGC
TCAATCTTGTGTTGCTTTGACAAGACTGGAACCTAACTGAAGATGGTTTAGATCTTTGGGGGATTCAACGAGTGG
AAAAATGCACGATTTCTTTCACCAGAAGAAAATGTGTGCAATGAGATGTTGGTAAAATCCCAGTTTGTGCTTGTA
TGGCTACTTGTCAATTCACCTACAAAAATTGAAGGAGTGCTCTCTGGTGATCCACTTGATCTGAAAAATGTTGAGG
CTATTGGATGGATTCTGGAAGAAGCAACTGAAGAAGAAACAGCACTTCATAATCGAATTATGCCCCACAGTGTTTC
GTCTTCCCAAACCACTGCTTCCTGAATCTACCCCTGCAGGAAACCAAGAAATGGAGCTGTTTGAACCTCCAGCTA
CTTATGAGATAGGAATTGTTGCCAGTTCCCATTTTCTTCTGCTTTGCAACGTATGAGTGTGGTTGCCAGGGTGC
TGGGGGATAGGAAAATGGACGCCTACATGAAAGGAGCGCCGAGGCCATTGCCGGTCTCTGTAAACCTGAAACAG
TTCTGTGCGATTTTCAAACGTTTTTGGAAAGACTTCACTAAACAGGGCTTCCGTGTGATTGCTCTTGACACAGAA
AATTGGAGTCAAACTGACATGGCATAAAGTACAGAATATTAGCAGAGATGCAATTGAGAACAACATGGATTTTA
TGGGATTAATTATAATGCAGAACAAATTAAAGCAAGAACCCCTGCAGTACTTGAAGATTTGCATAAAGCCAACA
TTCGCACCGTCATGGTCACAGGTGACAGTATGTTGACTGCTGTCTCTGTGGCCAGAGATTGTGGAATGATTCTAC
CTCAGGATAAAGTGATTATTGCTGAAGCATTACCTCAAAGGATGGGAAAGTTGCCAAAATAAATTGGCATTATG
CAGACTCCCTCACGCAGTGCAGTCATCCATCAGCAATTGACCCAGAGGCTATTCCGGTTAAATTGGTCCATGATA
GCTTAGAGGATCTTCAAATGACTCGTTATCATTTTGAATGAATGGAAAATCATTCTCAGTGATACTGGAGCATT
TTCAAGACCTTGTTCCCTAAGTTGATGTTGCATGGCACCGTGTTTGCCCGTATGGCACCTGATCAGAAGACACAGT
TGATAGAAGCATTGCAAAATGTTGATTATTTTGTGGGATGTGTGGTGATGGCGCAAATGATTGTGGTGCTTTGA

1889/2825

FIGURE 1681B

AGAGGGGCACACGGAGGCATTTCTTATCGGAGCTCGAAGCTTCAGTGGCATCTCCCTTTACCTCTAAGACTCCTA
GTATTTCTGTGTGCCAAACCTTATCAGGGAAGGCCGTGCTGCTTTAATAACTTCCTCCTGTGAATTAGCACTAT
TTTCTATAGTTACTTATTCTCTGGATCATTTTATAATTTCCATATTAATTTCAAGTATGCTCGTGTTATTCTTCA
GTGATTTCCACAATTGTGCATTTTATTCTTTGGTTTTAAGTAAGTGAAGCATATAATGAAAGTAATTGCTAAGTAGC
AGCTTAAAAATTCAATTATCCGATTGTATTTAACATCTTTAAGAGCATGATCATAAAGAGCTATTTTTGACACCC
CCCCCCCACTTTTTTAACATTTAGAGTTAGTAAGGGTTTTATATCTCTTCTGTCCATATTGTTTTCAAAGGAATG
AGGTGTTTAGGTGGCTGGAAAAGCATTTGTAGGAAGTTAGATTTGAATATAGACAAGGTGGGTATTACAGTTGA
GAATGTTATTTGAAGAATGCCTGTGAAGCCAGGTGTGGGTCTACTCAGTGCCATAGATAGACTGAGTCTTCTCT
CGTAGGTTACCATTACATAGTAATTTTGATTCTGAATTTACATTAAATTATTTGAGTTTATACAGACCTAAATT
TTAAATCTGTACATATATTATTTTGATGTATTAAGATGAATATTGCTGATTTAAATTTTATTTATGCACATACT
TAAAGGACAGAAATGTCTGGGAAAGTAATTGTTAAATAATGATATGTAACTTTTTAACTTTTTAAATAAATAACA
AGATTTTTAATGTGTGTCTCCCTCAGGGTTGTTTAAAGTTTTTTTTCTCCCTCAAGTATAAATAGTGGTAACTAT
ATGTTTTGTATCTTCTAGCACCAACTGCTGTAAAGCAATGCTGCAAATAATGCTTGAATACAAGTGGCTAAGCCA
ACAACAGAATAAATACTTTTTATAGTAGTTTTATAATCCTGAAATTCGAAAGCTTTCCCAATTGCACTTGCATCTA
AACAAAACGTGTGCAGTTTTTACTCTATTTATTTTGTTCCTCATGTTTATGAAAGTCTGCACAGTTTCAAAGGC
ATGGTAAATAATATATCAATGTTTATGTAGTCTGTTACAGAAACAGCTATAGATAACATTATCCAGTGAAGAGCA
AAATTCAAGCTTTAGAAAATATTCATGCATGCAATTTTGACATATCTAAAAATAGGTTTTTGTATATTTATGGTG
GGAGGTGGTTGGGAACTTTTAACAAAATGGGGTGTTAATTTTTGTACAGTCTGTGGGCATTTACACATTTTAAAT
GTATTAATAATTTGGTAATTATGTGTACATTAAATTAATAAAAAGTTACTTCTAGTTATGATTTGTGAATTCCCTAA
GACCTTGGATTTTTTTAAGTAACTTTATATCAGAAATGATACTGCATCTTTATATTTTTAAATTTGATTGCTGC
TCAAGAATGGTACCCTCTTGTCAAAAAGGCATACATTATAATTGTACATTCAGCATTGTAAATAATCTTATGAA
ACCTTTTTTGATTGAAGCTATTCAAATAAAAATTTTAATGAATGAAATAA

1890/2825
FIGURE 1682

MSEIEEIFSTDLVPGDVMVIPLNGTIMPCDAVLINGTCIVNESMLTGESVPVTKTNLPNPSVDVKGIGDQLYNPE
THKRHTLFCGTTVIQTRFYTGELVKAIVVRTGFSTSKGQLVRSILYPKPTDFKLYRDAYLFLLCLVAVAGIGFIY
TIINSILNEVQVGVIIIESLDIITITVPPALPAAMTAGIVYAQRRLKKIGIFCISPQRINICGQLNLVCFDKTGT
LTEDGLDLWGIQRVENARFLSPEENVCNEMLVKSQFVACMATCHSLTKIEGVLSGDPLDLKMFEAIGWILEEATE
EETALHNRIMFTVVRPPKQLLPSTPAGNQEMELFELPATYEIGIVRQFPFSSALQRMSVVARVLGDRKMDAYMK
GAPEAIAGLCKPETVPVDFQNVLEDFTKQGFRVIALAHRKLESKLTWHKVQNISRDAIENNMDFMGLIIMQNKLK
QEPPAVLEDLHKANIRTVMTGDSMLTAVSVARDCGMILPQDKVIIAEALPPKDGKVAKINWHYADSLTQCSHPS
AIDPEAIPVKLVHDSLEDLQMTRYHFAMNGKSFSVILEHFQDLVPKMLHGTVFARMAPDQKTQLIEALQNVDYF
VGMCGDGANDCGALKRAHGGISLSELEASVASPFTSKTPSISCVPNLIREGRAALITSSCELALFSIVTYSLDHF
IISILISSMLVLFFSDFHNCAFYSLV

FIGURE 1683A

[illegible]

1892/2825
FIGURE 1683B

CGCGTCGTGCATAGGCAAAGAAGGATTAGGCTGTTTTCTTTTTTAAAGTACTGTAGCCTCAGTACTGGTGTAGTGT
GTCAGCTCTGTTTACGAAGCAATACTGTCCAGTTTTCTTGCTGTTTTTCCGGTGTTGTACTAAACCTCGTGCTTG
TGAAGTCCATACAGAAAACGGTGCCATCCCTGAACACGGCTGGCCACTGGGTATACTGCTGACAACCGCAACAAC
AAAAACACAAATCCTTGGCACTGGCTAGTCTATGTCTCTCAAGTGCCTTTTTGTTTGTACTGGTTCATTGTGTT
ACATTAACGACCCACTCTGCTTCTTGCTGGTGAAAGCCCTGCTCTTTAATCAAACCTCTGGTGGCCCACTGACTAA
GAAGAAAGTTTATTTTCGTGTGAGATGCCAGCCCTCCGGGCAGGCAAGGGCTCTGAAGATTTGGCAACGTGGCT
TAATTGTTCTGCTTTTTCTGTAGTTCAATTTTCATGTTTCTTGACCCTTTTGTATAAAGCTACAATATTCTCTCTT
ATTGTTCTTTCATATGGAATGTATTTTCAAATGTAACTCTCTTCTCTTCTCTCTCTCTCTCTCTCTCTCTCTT
TCTCTCTTAGAATTGGAGGATTTGCCATTGTCCAGGAAAGAAACTTGCAGCTTTAACCTGCTGGGAATGGCAAAC
GATTTTACTAGACTTTATGTTTAAAAATAAATAAATAAGGGAAATTCCTAACTTTGCCCTCCAAAGTCTAACTTT
GGTTTTCTTGTTAACTGGTTAAAGTGACAGTATCTTTTTTCTTATCTATTCTATTCAAATGACCTTTGATAGA
AATGTTGGCATTTAGTAGAAATAGTGATAAGTTGAGGAAAGAAATAATACAAATTGGCTTTCAAGTGAGACCCAA
AGGAAGAACTGGATAAAATCTTCCAAATCCAAAAGCATGAGATTTTCTATCCAAATATGCAAAAATGACCCAAG
AGAAGTTTCTTATTTTGCTACTGAGTCACACAAGGGAAGTGGAAGGAAGAACAGTTAATTTAAGAATGAAACTAT
AAATCCTGATGCCTGGGGGTCAAGTATTTTAAAGATAAGAGGGGGGAAAAACACATAAAGTCAAACAAATGTTTTAA
AAATTCATAACAGCAACCTTGAAAAATAGACTTAAATGAATGCTTCTAGAACTTCCAGCGGCTCACAAAAGAAAT
AAGCCTGCCTTAGGGCTGGCAACATCTAAGCCTCTAACAGCACAGGGAAGCAAATATCTTACCAGGCAGCCTATG
AATTAACCCAAAGAAGCTTTGGTTGGTTTTGGTGGATTTTTATCATGCCATGTTGGACATGAGATTTTTTAGATC
TTCTTTCCACATTGCTAGACGTCTCACTCAAAGACATTTGTTGGGAGTCACATTGTCATCATAGACGAGACAGT
CCATTCATCTTAGTTAAATTGGATTGAGAATGCCTTTTGTTCAGGAAAATATTGATCACCATGAAAGAAGAAAT
AGTTTTTTGTCCCCAGAGACATTCATTTAGTTGATATAATCCTACCAGAAGGAAAGCACTAAGAAACACTCGTTT
GTTGTTTTTAAAGGCAACAGACTTAAAGTTGTCCTCAGCCAAGGAAAAATGATACTGCAACTTTAAAAATTAAAG
TATCTTGCACTGATAAATATATTTAAAAATTGTATGTTTATAAAGTTATTAATTTGTAAAGGCAGTGTTACAAAA
TGTTTCAGTTTATATTGTTTTAGATTGTTTTGTAATTTTAAAGGTGTAAATAACATATTTTTTCTTTATGGAAA
TCTAAACTTTCTGTAGTAAAATGTTTTCAATTTTACTGGTATATTATTGCTTCATGTTTTGTACCATCATAAGAT
TTTGTGCAGATTTTTTTTTTACAGAAATTATTA

1893/2825

FIGURE 1684

MERGLPELLCAVLALVLPAGAFRNDKCGDTIKIESPGYLTSPGYPHSYHPSEKCEWLIQAPDPYQRIMINFNP
DLED RDCKYDYVEVFDGENENGHFRGKFCGKIAPPPVVS SGPFLFIKFVSDYETHGAGFSIRYEIFKRGPECSQ
YTTPSGVIKSPGFPEKYPNSLECTYIVFAPKMSEIILEFESFDLEPDSNPPGGMFCRYDRLEIWDGFPDVGPHIG
RYCGQKTPGRIRSSSGILSMVFYTD SAIKEGFSANYSVLQSSVSEDFKCMEALGMESGEIHS DQITASSQYSTN
WSAERSRLNYPENGWTPGEDSYREWIQVDLGLLRFTAVGTQGAISKETKKKYYVKTYKIDVSSNGEDWITIKEG
NKPVL FQGNTNPTDVVAVFPKPLITRFVRIKPATWETGISMRFEVYGCKITDYPCSGMLGMVSG LISDSQITSS
NQGDRNWMPENIRLVT SRSGWALPPAPHSYIN EWLQIDL GEEKIVRGII IQGGKHRENKVFM RKFKIGYSNNGSD
WKMIMDDSKRKAKSFEGNNNYDTPELRTFPALSTRFIRIYPERATHGGLGLRMELLGCEVEAPTAGPTTPNGNLV
DECDDDQANCHSGTGDDFQLTG GTTVLATEKPTVIDSTIQSEFPTYGFNCEFGWGSHKTFCHWEHDNHVQLKWSV
LTSKTGPIQDHTGDGNFIYSQADENQKGKVARLVSPVVYSQNSAHCMTFWYHMSGSHVGT LRVKLRYQKPEEYDQ
LVWMAIGHQGDHWKEGRVLLHKSLKLYQVIFEGEIGKGNLGGIAVDDISINN HISQEDCAKPADLDKKNPEIKID
ETGSTPGYEGEGEGDKNISRKPGNVLKTLDPILITTIAMSALGVLLGAVCGVVLYCACWHNGMSERNLSALENYN
FELVDGVK LKKDKLNTQSTYSEA

1894/2825
FIGURE 1685A

ATTTATGCTCTCAGCCTTGTGTTGTCAATTTGGAAGCAGTTGTTTCATCTGAGTTCAGAAGTAGCATTCCCGTGT
ACAAAAAAGGTGGAAGAATGAGAAACATCTTCACACCAGCAGGACACAAATAGTACATGTGAAATTTCCAAGCA
TTATGGTTTACAGAGATGATTATTTTCATCAGACATTCCATCTCTGTATCTGCAGTGATAGTACGCGCCTGGATTA
CTCACAAATACAGTGGCAGAGACTGGAATGTTAAATGGGAGGAAAACCTTGCTCCATGCTGTAGCAAAGAATTATA
CCCTCCTGCAGACCATCCCGCCTTTTGAACGCCCTTTCAAAGATCATCAAGTGTGCCTTGAGTGGAACATGGGT
ATATTTGGAACCTTCGGGCAAACAGGATTCCACAGTGTCTCTGGAAAATGATGTGGTTGCCCTGCTTGGCTTTC
CTTATGCCTCCAGTGGAGAAAACACAGGCATTGTCAAGAAAGTTCCCGAGGTTTCGGAACCGAGAGCTGGAGGCCA
CTCGACGCCAGAGGATGGATTACCCAGTGTCTTACTGTTTCATTGTGGCTTTATTTACTCCATTATTGCAAGGCCA
ACCTCTGTGGGATTCTGTACTTTGTTGACTCTAATGAGATGTACGGCACACCTTCTGTATTTCTTACGGAAGAGG
GCTATTTGCATATTCAGATGCATCTTGTCAAAGGGGAAGACCTTGCTGTAAAACTAAATTCATCATACCTTTGA
AGGAGTGGTTTCGACTGGATATCTCTTTTAAACGGAGGCCAGATAGTAGTAACCACTAGCATTGGACAGGATTTGA
AAAGCTACCACAATCAGACCATTAGCTTCCGGGAGGATTTCCATTATAATGACACAGCTGGGTACTTTCATTATTG
GAGGGAGCAGGTATGTGGCTGGCATTGAAGGGTTTTTTGGACCCCTGAAGTACTATCGCCTTCGCAGTCTGCACC
CCGCCCAGATTTTTAATCCCTCCTTGAGAAGCAACTTGCTGAACAAATCAAGTTATATTATGAAAGGTGTGCTG
AGGTTCAAGAAATAGTATCTGTGTATGCATCTGCAGCAAAGCACGGGGCGAGAGACAAGAAGCATGCCACCTCC
ACAACCTCTACCTGGACCTCCAGCGCAGGTATGGGAGACCTCGATGTGCAGAGCCTTCCCTGGGAGAAGGAGC
TGAAAGACAAACACCCCAGCTTGTTCCAGGCATTGCTGGAGATGGATCTGCTGACCGTGCCAAGGAACCAAAATG
AATCTGTATCAGAAATCGGTGGGAAGATATTTGAGAAGGCTGTAAAGAGACTCTCTAGCATTGATGGTCTTCACC
AAATTAGCTCTATCGTCCCCTTTCTGACGGATTCCAGCTGCTGTGGATACCATAAAGCATCCTACTACCTTGCAG
TCTTTTATGAGACTGGATTAAATGTTTCTCGGGATCAGCTGCAGGGCATGTTGTATAGTTTGGTTGGAGGCCAGG
GGAGTGAGAGGCTGTCTTCAATGAATCTTGGGTATAAACACTACCAGGGTATTGACAACCTACCCCTGGACTGGG
AACTGTGCTATGCCTACTACAGCAACATTGCCACCAAGACACCCCTTGACCAGCACACACTGCAAGGAGATCAGG
CATATGTTGAAACAATTAGACTAAAAGATGATGAAATACTCAAGGTACAAACCAAGAAGATGGAGATGTCTTTA
TGTGGTTGAAGCATGAAGCTACCCGAGGCAATGCAGCAGCTCAGCAACGATTGGCCCAGATGCTGTTCTGGGGGC
AGCAAGGTGTGGCCAAGAATCCCGAAGCAGCAATTGAGTGGTACGCCAAGGGCGCCCTGGAGACGGAGGATCCTG
CGTTAATCTATGACTATGCCATTGTGCTATTCAAGGGTCAAGGAGTAAAAAAGAACAGACGGCTTGCCTTAGAGC
TGATGAAGAAAGCAGCTTCCAAGGGATTGCATCAGGCAGTCAATGGCCTGGGATGGTATTACCACAAATTCAGA
AAAATTACGCCAAAGCAGCAAAGTACTGGTTAAAAGCAGAAGAAATGGGGAACCCAGATGCGTCATACAATCTTG
GAGTCTGCATTTGGATGGCATCTTCCCTGGAGTTCTTGGAAGGAATCAAACCTTTAGCTGGTGAATATTTCCATA
AGGCTGCGCAAGGTGGACACATGGAAGGGACCTTGTGGTGTCTCTCTACTATATCACAGGCAACCTGGAGACAT
TCCCTAGAGATCCTGAGAAAGCTGTTGTATGGGCAAAACATGTAGCTGAGAAAAATGGCTACTTTGGGCCATGTCA
TCCGCAAGGCCCTCAATGCCTACCTGGAAGGTTTCATGGCATGAAGCTTTGCTGTATTATGTTTTAGCAGCAGAAA
CTGGAATTGAAGTGTACAGACAAATTTAGCACACATCTGTGAGGAGAGGCCAGACCTGGCCAGGAGATACTTGG
GTGTTAACTGTGTTTGGAGATACTATAATTTCTCTGTTTTTCAAATCGATGCTCCTTCCTTTGCATATTTGAAGA
TGGGAGACCTTTACTACTATGGCCACCAAAACCAGTCACAAGACCTGGAGTTGTCTGTGCAGATGTACGCCCCAAG
CCGCCCTGGATGGAGACTCCCAGGGATTTTTTAACTGGCCCTGCTAATCGAGGAAGGTACGATAATCCCACACC
ATATCTTGGATTTCTTGGAAATTGACTCAACTCTCCATTCTAATAACATCTCCATTCTCCAGGAACCTGTACGAAA
GGTGCTGGAGCCACAGTAACGAGGAGTCCTTCAGCCCCCTGCTCCTTGGCCTGGCTTTACCTGCACTTGCGGCTTC
TCTGGGGTGCTATCCTGCACTCAGCCCTGATCTACTTTCTGGGAACCTTTCTGCTATCCATATTGATCGCCTGGA
CTGTGCAGTATTTCCAGTCTGTCTCAGCAAGCGATCCCCCTCCAAGACCATCCCAGGCCTCCCAGACACTGCCA
CGTCCACTGCAAGTCCAGCTGTGACTCCAGCTGCAGATGCCCTGACCAAGACCAGCCACAGTAACATAATAACC
CGGAGCCACGTGGGTTGAAGTCTGTGCACTCCAGTTCTCTCCAGATGAGAGAGAATCTTTTCAACAGCTGGTATTGGG
AAGCTGGGGCCAGGGCATGATCCTGATAAACACCTTAAATGTCTTGTCAACTGGATGCAAATTTTGCAATTGGTG
TCATTTTTTTTTAAAGTCAAATTACAAGGAAGTACCCAGATCAGGCAGTGGTAATACCAAGGTTCATCAAACACAT
ACAAGGAACATCTTGATCATAGGGCATGTGGGAAGTTTACTGGGCCATCACAGACTTTTGTCTAGTGATTGTA
TGTATTAGGAGTCATAGCATGCCCTACGGCAGATCTGGATTCTTATACACTAAGATGTGTCTTAAGAATCACAGT
GCGTGCTTCATCCCTTTATTGAAGAACAGAAAATTATGACTACTCTACAAGGTGGATAATATTTTGGTACCTGTG
CTTGCCACAGCCCTGTTCTCAAAGCTGAATTGATAGATTTCTCTTTGACTTCCAAGACCTAGCAGTTATAAGGC

[illegible]

1896/2825
FIGURE 1686

LCSQPCVVNLEAVVSSEFRSSIPVYKKRWKNEKHLHTSRTQIVHVKFPSIMVYRDDYFIRHSISVSAVIVRAWIT
HKYSGRDWNVKEENLLHAVAKNYTLLQTIPPFFERPFKDHQVCLEWNMGYIWNLRANRIPQCPLENDVVALLGFP
YASSGENTGIVKKFPRFRNRELEATRRQMDYPVFTVSLWLYLLHYCKANLCGILYFVDSNEMYGTPSVFLTEEG
YLHIQMHLVKGEDLAVKTKFIIPLKEWFRLDISFNGGQIVVTTSIGQDLKSYHNQTISFREDFHYNDTAGYFIIG
GSRYVAGIEGFFGPLKYYRLRSLHPAQIFNPLLEKQLAEQIKLYYERCAEVQEIVSVYASAAKHGGERQEACHLH
NSYLDLQRRYGRPSMCRAFPWEKELKDKHPSLFQALLEMDLLTVPRNQNESVSEIGGKIFEKAVKRLSSIDGLHQ
ISSIVPFLTDSSCCGYHKASYLLAVFYETGLNVPRDQLQGMLYSLVGGQGSERLSSMNLGYKHYQGIDNYPLDWE
LSYAYYSNIATKTPLDQHTLQGDQAYVETIRLKDDEILKVQTKEDGDVFMWLKHEATRGNAAAQORLAQMLFWGQ
QGVAKNPEAAIEWYAKGALETEDPALIYDYAIVLFKGQGVKKNRRRLALELMKKAASKGLHQAVNGLGWYYHKFKK
NYAKAAKYWLKAEEMGNPDASYNLGVHLHDGIFPGVPGRNQTLAGEYFHKAAQGGHMEGTLWCSLYYITGNLETF
PRDPEKAVVWAKHVAEKNLYLGHVIRKGLNAYLEGSWHEALLYVLAETGIEVSQTNLAHICEERPD LARRYLG
VNCVWRYYNFSVFQIDAPSFAYLKMGDLYYYGHQNSQDLELSVQMYAQAALDGDSQGFFNLALLIEEGTIIPH
ILD FLEIDSTLHSNNISILQELYERCWSHSNEESFSPCSLAWLYLHLRLLWGAILHSALIYFLGTFLLSILIAWT
VQYFQSVSASDPPPRPSQASPD TATSTASPAVTPAADASDQDQPTVTNNPEPRG

1897/2825
FIGURE 1687

GGAGGAGGAAGCAAGCGAGGGGGCTGGTTCCCTGAGCTTCGCAATTCCTGTGTGCGCTTCTGGGCTCCCAGCCTGC
CGGGTCGCGATGATCCCTCCGGCCGGAGCTGGTTTTTTTTGCCAGCCACCGCGAGGGCCGGCTGAGTTACCGGCATCC
CCGCAGCCACCTCCTCTCCCGACCTGTGATACAAAAGATCTTCCGGGGGCTGCACCTGCCTGCCTTTGCCTAAGG
CGGATTTGAATCTCTTTCTCTCCCTTCAGAATCTTATCTTGGCTTTGGATCTTAGAAGAGAATCACTAACCAGAG
ACGAGACTCAGTGAGTGAGCAGGTGTTTTGGACAATGGACTGGTTGAGCCCATCCCTATTATAAAAAATGCTCTCAG
AGCAACCGGGGAGCTGGTGGTTGACTTTCTCTCCTACAAGCTTTCCAGAAAGGATACAGCTGGAGTCAGTTTAGT
GATGTGGAAGAGAACAGGACTGAGGCCCCAGAAGGGACTGAATCGGAGATGGAGACCCCACTGCCATCAATGGC
AACCCTATCCTGGCACCTGGCAGACAGCCCCGCGGTGAATGGAGCCACTGGCCACAGCAGCAGTTTGGATGCCCGG
GAGGTGATCCCCATGGCAGCAGTAAAGCAAGCGCTGAGGGAGGCAGGCGACGAGTTTGAAGTGCAGTACCGGCGG
GCATTGAGTGACCTGACATCCAGCTCCACATCACCCAGGGACAGCATATCAGAGCTTTGAACAGGTAGTGAAT
GAACTCTTCCGGGATGGGGTAAACTGGGGTCGCATTGTGGCCTTTTTCTCCTTCGGCGGGGCACTGTGCGTGGA
AGCGTAGACAAGGAGATGCAGGTATTGGTGAGTCGGATCGCAGCTTGGATGGCCACTTACCTGAATGACCACCTA
GAGCCTTGGATCCAGGAGAACGGCGGCTGGGATACTTTTGTGGAAGTCTATGGGAACAATGCAGCAGCCGAGAGC
CGAAAGGGCCAGGAACGCTTCAACCGCTGGTTCCCTGACGGGCATGACTGTGGCCGGCGTGGTTCTGCTGGGCTCA
CTCTTCAGTCGGAAATGACACAGACACTGACCATCCACTCTACCCTCCCACCCCTTCTCTGCTCCACCACATCCT
CCGTCCAGCCGCCATTGCCACCAGGAGAACCCTACATGCAGCCCATGCCACCTGCCCATCACAGGGTTGGGCC
CAGATCTGGTCCCTTGCAGCTAGTTTTCTAGAATTTATCACACTTCTGTGAGACCCCCACACCTCAGTTCCCTTG
GCCTCAGAATTCACAAAATTTCCACAAAATCTGTCCAAAGGAGGCTGGCAGGTATGGAAGGGTTTGTGGCTGGGG
GCAGGAGGGCCCTACCTGATTGGTGCAACCCCTTACCCCTTAGCCTCCCTGAAAATGTTTTCTGCCAGGGAGCTT
GAAAAGTTTTTCAGAACCTCTTCCCCAGAAAGGAGACTAGATTGCCTTTGTTTTGATGTTTGTGGCCTCAGAATTGA
TCATTTTCCCCCACTCTCCCCACACTAACCTGGGTTCCCTTTCTTCCATCCCTACCCCTAAGAGCCATTTAG
GGGCCACTTTTACTAGGGATTTCAGGCTGCTTGGGATAAAGATGCAAGGACCAGGACTCCCTCCTCACCTCTGGA
CTGGCTAGAGTCCTCACTCCAGTCCAAATGTCTCCAGAAGCCTCTGGCTAGAGGCCAGCCCCACCCAGGAGGG
AGGGGGCTATAGCTACAGGAAGCACCCCATGCCAAAGCTAGGGTGGCCCTTGCAGTTTCAGCACCACCTAGTCCC
TTCCCCCTCCCTGGCTCCCATGACCATACTGAGGGACCAACTGGGCCCAAGACAGATGCCCCAGAGCTGTTTATGG
CCTCAGCTGCCTCACTTCCCTACAAGAGCAGCCTGTGGCATCTTTGCCTTGGGCTGCTCCTCATGGTGGGTTTCAGG
GGAATCAGCCCTGAGGTGAAAGGGAGCTATCAGGAACAGCTATGGGAGCCCCAGGGTCTTCCCTACCTCAGGCAG
GAAGGGCAGGAAGGAGAGCCTGCTGCATGGGGTGGGGTAGGGCTGACTAGAAGGGCCAGTCCCTGCCTGGCCAGGC
AGATCTGTGCCCCATGCCTGTCCAGCCTGGGCAGCCAGGCTGCCAAGGCCAGAGTGGCCTGGCCAGGAGCTCTTC
AGGCCTCCCTCTCTCTTCTGCTCCACCCTTGGCCTGTCTCATCCCCAGGGGTCCCAGCCACCCCGGGCTCTCTGC
TGTACATATTTGAGACTAGTTTTTATTCCTTGTGAAGATGATATACTATTTTTGTAAAGCGTGTCTGTATTTATG
TGTGAGGAGCTGCTGGCTTGCAGTGCGCGTGCACGTGGAGAGCTGGTGCCCGAGATTGGACGGCCTGATGCTCC
CTCCCCTGCCCTGGTCCAGGGAAGCTGGCCGAGGGTCTGGCTCCTGAGGGGCATCTGCCCCCTCCCCAACCCCC
ACCCACACTTGTTCAGCTCTTTGAAATAGTCTGTGTGAAGGTGAAAGTGCAGTTTCAGTAATAAACTGTGTTTA
CTCAGTGAAAAAAAAAAAAAAAAAAAA

1898/2825
FIGURE 1688

MSQSNRELVVDFLSYKLSQKGYSWSQFSDVEENRTEAPEGTESEMETPSAINGNPSWHLADSPAVNGATGHSSSL
DAREVIPMAAVKQALREAGDEFELRYRRAFSDLTSQLHITPGTAYQSFEQVVNELFRDGVNWGRIVAFFSFGGAL
CVESVDKEMQVLVSRIAAMATYLNHDHLEPWIQENGWDTFVELYGNNAAESRKGQERFNRWFLTGMTVAGVVL
LGSLSRK

1899/2825
FIGURE 1689A

TTCGCCGTTTGAATTGCTGCGGGCCCGGGCCCTCACCTCACCTGAGGTCCGGCCGCCAGGGGTGCGCT**ATG**CCG
TCGGGAGGTGACCAGTCGCCACCGCCCCCGCTCCCCCTCCGGCGGGCGGCAGCCTCGGATGAGGAGGAGGAGGAC
GACGGCGAGGCGGAAGACGCCGCGCCGTCTGCCGAGTCGCCACCCCTCAGATCCAGCAGCGGTTTCGACGAGCTG
TGCAGCCGCCTCAACATGGACGAGGCGGGCGGGCCCGAGGCCTGGGACAGCTACCGCAGCATGAGCGAAAAGCTAC
ACGCTGGAGGGAAATGATCTTCATTGGTTAGCATGTGCCTTATATGTGGCTTGCAGAAAATCTGTTCCAAGTGA
AGCAAAGGGACAGTGGAAGGAACTATGTATCTTTAACTAGAATCCTGAAATGTTTCAGAGCAGAGCTTAATCGAA
TTTTTTAATAAGATGAAGAAGTGGGAAGACATGGCAAATCTACCCCCACATTTTCAGAGAACGTACTGAGAGATTA
GAAAGAACTTCAGTGTTTCTGCTGTAATTTTAAAGAAATATGAACCCATTTTTTCAGGACATCTTTAAATACCCT
CAAGAGGAGCAACCTCGTCAGCAGCGAGGAAGGAAACAGCGGCGACAGCCCTGTACTGTGTCTGAAATTTTCCAT
TTTTGTTGGGTGCTTTTTATATATGCAAAAGGTAATTTCCCCATGATTAGTGATGATTTGGTCAATTTCTTATCAC
CTGCTGCTGTGTGCTTTGGACTTAGTTTATGGAAATGCACCTTCAGTGTTCTAATCGTAAAGAACTTGTGAACCCCT
AATTTTAAAGGCTTATCTGAAGATTTTCATGCTAAAGATTCTAAACCTTCCTCTGACCCCCCTTGTATCATTGAG
AAACTGTGTTTCCTTACATGATGGCCTAGTTTTGGAAGCAAAGGGGATAAAGGAACATTTCTGGAAAACCTATATT
AGGAAACTTTATGAAAAAAGCTCCTTAAGGGAAAAAGAAAATCTCACTGGGTTTCTAGAACCTGGGAACTTT
GGAGAGAGTTTTAAAGCCATCAATAAGGCCTATGAGGAGTATGTTTTATCTGTTGGGAATTTAGATGAGCGGATA
TTTCTTGGAGAGGATGCTGAGGAGGAAATTGGGACTCTCTCAAGGTGTCTGAACGCTGGTTTCAGGAACAGAGACT
GCTGAAAGGGTGCAGATGAAAAACATCTTACAGCAGCATTTTGACAAGTCCAAAGCACTTAGAATCTCCACACCA
CTAACTGGTGTTAGGTACATTAAGGAGAATAGCCCTTGTGTGACTCCAGTTTCTACAGCTACGCATAGCTTGAGT
CGTCTTCACACCATGCTGACAGGCCTCAGGAATGCACCAAGTGAGAACTGGAACAGATTCTCAGGACATGTTCC
AGAGATCCAACCCAGGCTATTGCTAACAGACTGAAAGAAATGTTTGAAATATATTCTCAGCATTTCCAGCCAGAC
GAGGATTTTCAGTAATTGTGCTAAAGAAATTGCCAGCAAACATTTTCGTTTTGCGGAGATGCTTTACTATAAAGTA
TTAGAATCTGTTATTGAGCAGGAACAAAAAAGACTAGGAGACATGGATTTATCTGGTATTCTGGAACAAGATGCA
TTCCACAGATCTCTCTTGCCCTGCTGCCTTGAGGTGCTCATTTTTTCTTATAAGCCTCCTGGGAATTTTCCATTT
ATTACTGAAATATTTGATGTGCCTCTTTATCATTTTTATAAGGTGATAGAAGTATTTCATTAGAGCAGAAGATGGC
CTTTGTAGAGAGGTGGTAAACACCTTAATCAGATTGAAGAACAGATCTTAGATCATTGTCATGGAACCCAGAG
TCTCCACTCTGGGAAAAAATTAGAGACAATGAAAACAGAGTTCCCTACATGTGAAGAGGTGATGCCACCTCAGAAC
CTGGAAAGGGCAGATGAAATTTGCATTGCTGGCTCCCTTTGACTCCCAGAAGGGTGACTGAAGTTCTGTGCTGAT
ACTGGAGGACTTGGAAGGAGCATAACATCTCCAACCACATTATACGATAGGTACAGCTCCCCACCCAGCCAGCACT
ACCAGAAGGCGGCTATTTGTTGAGAATGATAGCCCTCTGATGGAGGGACGCCTGGGCGCATGCCCCACAGCCC
CTAGTCAATGCTGTCCCTGTGAGAATGTATCTGGGGAGACTGTTTCTGTACACCAGTTCTTGACAGACTTTG
GTCACCATGGCAACCGCCACTGTACAGCCAACAATGGGCAAACGGTAACCATTCTGTGCAAGGTATTGCCAAT
GAAAATGGAGGGATAACATTCTTCCCTGTCCAAGTCAATGTTGGGGGGCAGGCACAAGCTGTGACAGGCTCCATC
CAGCCCCCTCAGTGCTCAGGCCCTGGCTGGAAGTCTGAGCTCTCAACAGGTGACAGGAACAACCTTTGCAAGTCCCT
GGTCAAGTGGCCATTCAACAGATTTCCCCAGGTGGCCAACAGCAGAAGCAAGGCCAGTCTGTAACCAGCAGTAGT
AATAGACCCAGGAAGACCAGCTCTTTATCGCTTTTCTTTAGAAAGGTATACCATTTAGCAGCTGTCCGCCCTTCGG
GATCTCTGTGCCAACTAGATATTTAGATGAATTGAGGAAAAAATCTGGACCTGCTTTGAATTCTCCATAATT
CAGTGCTCTGAACTTATGATGGACAGACATCTGGACCAGTTATTAATGTGTGCCATTTATGTGATGGCAAAGGTC
ACAAAAGAAGATAAGTCCTTCCAGAACATTATGCGTTGTTATAGGACTCAGCCGCAGGCCCCGGAGCCAGGTGTAT
AGAAGTGTTTTGATAAAAGGGAAAAGAAAAAGAAATTTCTGGCAGCAGTGATAGCAGAAGCCATCAGAATTCT
CCAACAGAACTAAACAAAGATAGAACCAGTAGAGACTCCAGTCCAGTTATGAGGTCAAGCAGCACCTTGCCAGTT
CCACAGCCCAGCAGTGCTCCTCCACACCTACTCGCCTCACAGGTGCCAACAGTGACATGGAAGAAGAGGAGAGG
GGAGACCTCATTGAGTTCTACAACAACATCTACATCAAACAGATTAAGACATTTGCCATGAAGTACTCACAGGCA
AATATGGATGCTCCTCCACTCTCTCCCTATCCATTTGTAAGAACAGGCTCCCCTCGCCGAATACAGTTGTCTCAA
AATCATCCTGTCTACATTTCCCCACATAAAAATGAAACAATGCTTTCTCCTCGAGAAAAGATTTTCTATTACTTC
AGCAACAGTCCCTCAAAGAGACTGAGAGAAATTAATAGTATGATACGCACAGGAGAACTCCTACTAAAAAGAGA
GGAATTCCTTTTGAAGATGGAAGTGAATCACCTGCAAAAAGAAATTTGCCAGAAAATCATTCTGCCTTATTACGC
CGTCTCCAAGATGTAGCTAATGACCGTGGTTCCCACT**TGAG**GGTTAGTCTCTTGTATTAACTCTTCACAAAATCTG
TTTAGCAGCAGCCTTTAATGCATCTAGATTATGGAGCTTTTTTCCTTAATCCAGCTGATGAGTTACAGCCTGTTA

1900/2825
FIGURE 1689B

GTAACATGAGGGGACATTTTGGTGAGAAATGGGACTTAACTCCTTCCAGTGTCTTAGAACATTTTAATTCATCC
CAACTGTCTTTTTTCCCTACCACTCAGTGATTACTGTCAAGGCTGCTTACAATCCAACTTGGGTTTTTGGCTC
TGGCAAAGCTTTTAGAAATACTGCAAGAAATGATGTGTACCCAACGTGAGCATAGGAGGCTTCTGTTGACGTCTC
CAACAGAAGAACTGTGTTTCAAGTTCAATCCTACCTGTTTTGTGGTCAGCTGTAGTCCTCATAAAAAGCAAAACA
AAAATTAGGTATTTTGTCTTAAACACCTGGTAGGAGTGTGTGATTTTTTGCATTCTGACAAAGGAGAGCACAC
CCAGGTTTGGAGGTCCTAGGTCATTAGCCCTCGTCTCCCGTTCCTTTGTGCACATCTTCCCTCTCCCCATTGG
TGTGGTGCAGTGTGAAAAGTCCTTGATTGTTCCGGGTGTGCAATGTCTGAGTGAACCTGTATAAGTGGAGGCACTT
TAGGGCTGTAAAATGCATGATTTTGTAAACCAGATTTTGTCTGTATATTTGTGATAGCACTTTCTACAATGTGAAC
TTTATTAAATACAAAACCTTCCAGGCTAAACATCCAATATTTTCTTTAATGCTTTTATATTTTTTTAAAATGTTAA
AACCCTATAGCCACCTTTTGGGAATGTTTTAAATTCTCCAGTTTTTTGTTATATAGGGATCAACCAGCTAAGAA
AAGATTTTAAGTCAAGTTGAATTGAGGGGATTAATATGAAAACCTATGACCTCTTCCTTTAGGAGGGAGTTATCT
AAAAGAAATGTCTATTAAGGTGATATATTTAAAAATATTTTGGGTGTTCTGCGCAGTTTAAAAAAATTGGTTGG
AGAATTTAGGTTTTTATTAGTACCATAGTACCATTTATACAAATTAGAAAATGTTATTTAACAGCTGAATTATCT
ATACATATCTTTATTAATCACTATTGTTCCAGCAGTTTTCAAGTCAAATTAATAATCTTATTAGGGAGAAAATTC
AATTGTAAATTGAATCAGTATAAACAAAGTTACTAGGTAACCTCATATTGCTGAGAGAAATATGGAACCTTACATT
GTTCAATTAGAATAGTGTCTCCCAAATATTTATAAAACTTCTCAAGATACTGCTACGTGTAATTTTATATGAA
GATAAGTGTATTTTCAATAAAGCATTTATAAATTAAAAAAAAAAAAAAAAAAAA

1901/2825
FIGURE 1690

MPSSGGDQSPFPPPPPPPPAAAASDEEEEDDGEAEDAAPSAESPTPQIQQRFDLCSRLNMDEAARPEAWDSYRSMSE
SYTLEGNDLHWWLACALYVACRKSVP TVSKGTVEGNYVSLTRILKCSEQSLIEFFNKMKKWEDMANLP PHFRERTE
RLERNFTVSAVIFKKYEP IFQDIFKYPQEEQPRQQRGRKQRRQPCTVSEIFHFCWVLF IYAKGNFPMISDDL VNS
YHLLLCALD LVYGNALQCSNRKELVNP NF KGLSEDFHAKDSKPSSDPPCIIEKLCSLHDGLVLEAKGIKEHFWKP
YIRKLYEKKLLKGKEENLTGFLEPGNFGESFKAINKAYEEYVLSVGNLDERIFLGEDAEEEEIGTLSRCLNAGSGT
ETAERVQMKNILQQHF DKS KALRISTPLTGVRYIKENSPCVTPVSTATHSL SRLHTMTLGLRNAPSEKLEQILRT
CSRDP TQAIANRLKEMFEIYSQHFPDEDFSNCAKEIASKHFRFAEMLYYKVLESVIEQEQKRLGDMDLSGILEQ
DAFHRSLLACCLEVVTFSYKPPGNFPFITEIFDVPLYHFYKVIEVFIRAEDGLCREVVKHLNQIEEQILDHLAWK
PESPLWEKIRDNENRVPTCEEVMPPQNLERADEICIASGPLTPRRVTEVRADTGGLGRSITSPTTLYDRYSSPPA
STTRRRLFVENDSPSDGGTPGRMPPQPLVNAVVPQNVSGETVSVTPVPGQTLVTMATATVTANNGQTVTIPVQGI
ANENGGITFFPVQVNVGGQAQAVTGSIQPLSAQALAGSLSSQQVTGTTLQVPGQVAIQQISPGGQQQKQGQSVTS
SSNRPRKTSSLSLFFRKVYHLAAVRLRDLCAKLDISDEL RKKIWTCTFEFSIIQCP ELMMDRHLDQLLMCAIYVMA
KVTKEDKSFQNMRCYRTQPQARSQVYRSVLIKGRKRNRNSGSSDSRSHQNSPTELNKDRTSRDSSPVMRSSSTL
PVPQPSSAPPTPTRLTGANS DMEEEEERGD LIQFYNNIYIKQIKTFAMKYSQANMDAPPLSPYPFVRTGSPRRIQL
SQNHVPYISPHKNETMLSPREKIFYYSNSPSKRLREINSMIRTGETPTKKRGILLEDGSESPAKRICPENHSAL
LRR LQDVANDRGSH

[illegible]

1903/2825

FIGURE 1692

WAINQAIANEYEVERRKLLIKRLDVTVQSF'GWSDRAKSQTEKLAKVYQPKRSVLSPKTTISVAHLLAARQDLSKIL
RTSSGSIREKTACAINKVL MGRVPDRGGRPNIEPPPPPEMPPWQKRQDGPQQQTGGRVGGRRGGYEHSSYGGRRGGH
EQGGGRGGRRGGYDHGGRGGGRGNKHQGGWTDGGSGGGGGYQDGGYRDSGFQPGGYHGGHSSGGYQGGGYGGFQTS
SSYTGSYQGGGYQQDNRYQDGGHHGDRGGRGGRGGRGGRGGRAGQGGGWGGRGSQNYHQGGQFEQHFQHGQYQ
YNHSGFGQGRHYTS

1904/2825
FIGURE 1693A

AAACCCTGTTCTTGGGTGGGTGTGGGTATAATACTAAGTTGAGATGATATCATTTACGGGGGAAGGCGCTTTGTG
AAGTAGGCCCTTATTTCTCTTGTCTTTTCGTACAGGGAGGAATTTGAAGTAGATAGAAACCGACCTGGATTACTCC
GGTCTGAACCTCAGATCACGTAGGACTTTAATCGTTGAACAAACGAACCTTTAATAGCGGCTGCACCATTGGGATG
TCCTGATCCAACATCGAGGTCGTAAACCTATTGTTGATATGGACTCTAGAATAGGATTGCGCTGTTATCCCTAG
GGTAACCTTGTTCCGTTGGTCAAGTTATTGGATCAATTGAGTATAGTAGTTCGCTCTGACTGGTGAAGTCTTAGCA
TGTACTGCTCGGAGGTTGGGTTCTGCTCCGAGGTCGCCCCAACCGAAATTTTTAATXCAGGTTTGGTAGTTTAGG
GCCTGTGGGTTTGTAGGTACTGTTTGCATTAATAAATTAAAGCTCCATAGGGTCTTCTCGTCTTGCTGTGTCAT
GCCCCCTCTTCACGGGCAGGTCAATTTCACTGGTTAAAAGTAAGAGACAGCTGTACCCTCGTGGAGCCATTTCAT
ACAGGTCCCTAGTTAAGGAACAAGTGATTATGCTACCTTTGCACGGTTAGGGTACCGCGGCGCTTAAACATGTGT
CACTGGGCAGGCGGTGCCCTAATACTGGTGATGCTAGAGGTGATGTTTTTGGTAAACAGGCGGGGTAAAGTTTG
CCGAGTTCCCTTTTACTTTTTTTAACTTTCTTATGAGCATGCCTGTGTTGGGTTGACAGTGAGGGTAATAATGA
CTTGTGTTGGTTGATTGTAGATAXTGGGCTGTAAATTGTCAGTTCAGTGTTTTAATCTGACGCAGGCTTATGCGGAG
GAGXATGTTTTCAIGTTACTTATACTAACATTAGTTCCTTATAGGGTGATAGATTGGTCCAATTGGGTGTGAGG
AGTTCAGTTATATGTTTGGGATTTTTTAGGTAGTGGGTGTTGAGCTTGAACGCTTTCTTAATTGGTGGCTGCTTT
TAGGCCCTACTATGGGTGTTAAATTTTTTACTCTCTCTACAAGGTTTTTCTAGTGTCAAAGAGCTGTTCTCT
TTGGACTAATAGTTAAATTTACAAGGGGATTTAGAGGGTCTGTGGGCAAATTTAAAGTTGAACAAAGATTCTAT
CTTGGACAACCAGCTATCACCAGGCTCGGTAGGTTTGTGCGCTCTACCTATAAATCTTCCCACTATTTTGCTAAA
AGAGCACACCCGCTCTATGTACGGAATTCGGGGAAGAACTTAAGCGACAATCTTGAACACCCCTTCTCATGTGATG
TGAAATGAAACCATTTGAAAAGTTTCTTCTAGCCAGTAATAGATTTTTTXXITTAATTGCTCTGCCCTGTGCCGA
GAGATGTTCTTTTAAGATGAATCTTTTGATGTCTGATACCACCAAATATAGGTGGTAGGGAGAGTTGGAGGCTGG
CCCTTTGAGCAGGCCATTAGCTTACTTGCTGGGCATTTCCGATAGCTTATTGCCTACCCCTTTTGCTGGAAACAAG
CTGATTTGAAAAACCAAATCTATGXAGACTGCAGCTAAGGATTTTATCGGTAGACXTAAGAGCTTTTGTCTTGT
GGATATTTTAGTGGAACCACATCAGTCTCAATACTGTCATTTTACACTGACTCAGAGCAGCTGACTTCATTCCTT
GCCACGATATATATTTAAGGCAGGCATTGTAACAGACATAAAGACAACCTTATCTGTTTCAGCAGGAAGGATTCAG
TTTATGAACTCTCAGACCAGATCATGTTGAACAAGGAGACTTTGATGTGTGTCATGAGGAAACTCATTCCTTACT
TCCCAGTCAATTTAAAGGCCAGCTATCCTGAGCTACTCGAATGAATGCACTGGTTAAACATTGGAATAGTTTGT
TTATATCCTTGCTCTCTCTAGGCCAATTGTGATTACATGACTCGACTCTACATCTCGTCAAACAAGGCCCTAGGT
CTGGTTGCTGTAGACTGCTCGCCCTCAACAAATAAAATCTGGTTGACTAGCCTCCTTGTATATACAACTATTATT
TGTTAAGAAGAAATTATCGTCAATTTTCTACTACCTTCCAATTGTCAGCTCTTTTTTCTCTCTGGTTTTTCT
ACACTTTACAGAAAAAGACATTGATCTATACTGCCATTCCCTCTAATCCTGCCATACTCAGTCAAAAGGAATGAC
TTAAGATGAAGATGATCATCTGCTCGAGTCAAAATATACATTGTATATAAGAATTGGTGATTAGAAAAGCAAAAA
ACCTAAACTTAAATCTAGGAGTCTGTATACTGTCTCCATGTCTCCATGCCTCAGATCTCATCTAAATCTTTGAA
CAGCACCATTCAACCAATCTGAGGCCTTGACTTGCTTGTAAGATGATTCTCAGAGATCGGCTGAGTTAAAAAAGA
TGACGACTTGATTACCAAGAAAGTAGGGCCAACCTTGACAAATCTGGCTCTGCTGACCCTGTCACTCCCAGATG
TAGCATAGACTCCTAAACAGAACCTCAAGTCTGATTGAGGATAAGGCCTTCTCCTGAGCTGAAAGTTCTTTGGCA
GATGAGCAAGAACTGAAAGCTGATGTACCTGACTGGCTCTGTAAGATCAGAAAAGTGTATCCAGAATAAGCCCT
ATGGATTAAACCCCTGAGTACCCAGAGTAAAAACTAATTTACAGAACTTCCTTATTGATCTGCTGGTTCTTCCAGA
TCATATTCTGGCTATTGGTATGGCTGGCCTTTCTGAAGGTACCCTGCTTGTCTATTTTCTGACTCAGCTCTTGC
CTGCCTTTTTTCACATGTTGCTGCAATTAGACTCACCGTGAGGACTACAGTCAATTTTCAGTCTATCTTGTGCCAA
TACAACAAGGATTTTTAATAGTAACAACCCACACCTCACCCACTAGGACTCAATGTTTACAACAGGAAGGACCAT
TGCTGCATACTCCTTGACCAGCAACTTTTTTGAAGATATTTTAAAGTGCAGAGTAGGCCTCTATTCTGTATGTA
ATTGTTCAATTTTTCAGCACCTGGAACCTCATCTATCGGGTCTGGAAGGAATACAGCAGTTGAAAGCCGCGTCCAT
TTCTCTCCTTCAGTAGTGAGAAATGAGTCCGATTCACCAGTACACACAGAAGTGTACCAGTTCAACCTAGCAAA
AGAAGAAAAGTTTCCACTGTACTTAAATTTTACAGCTGACTCAAATTGCCTCACAGAATTACTTGATGTAGAAGG
CTAGTCGTCTTACTTCGGATCAGCAGGACAGTTGGGCTCTCAGACTCATGACCACTGAGTTTGTCTGTGTTGAAA
CTGTGGTTTCATCCAACATATGCTATTGGACATGATTATTATTCATTCAAATGGATTACAGACTTCTTGAGGAC
AGGACAAACTTATCTCTCATGGTGTTTTTTTAGAATACTTTTATAACCAAGGAAGAAACCATGCCAGCTGTTACC
ATTCAACTTCTTAAGCAGAGATTAAGCTTTTTTCATATCTGTTCTTATCCTGGACATCAGTAGTTTTTAAATTGCC

1905/2825
FIGURE 1693B

AGCATCCGTTCCATCTTGTAACAACCTCCCTGATGTTTCTTAAAACACCTCTTCCTATTTTCAGTCTGTGGTTTG
GACAGTCTGACCCAACCTTGAGCTTTGTGGGTGAACATGTAATTCAGACCTCATCAATCAGCAAATCCATCTGAA
CTGTGGAGGAGAAGCTCTCTTTACTGAGGGTGCTTTAGCTTTGTAGGATGAAAACCTCAAACCTAACAGGGCCTAC
CATGTAGAGAATGAAGCCAGTGCAGGGGAAAGCAGAGCCAAAATATGGAGAGACTTGAATCCTGATGACAGCGTT
TGTGCCCCCTGG

1906/2825
FIGURE 1694

GACCCGGGAGAAGGAGGGCCAAGATGGCGGAAGCGGAGGAGTCTCCAGGAGACCCGGGGACAGCATCGCCCAGGC
CCCTGTTTGCAGGCCTTTCAGATATATCCATCTCACAAGACATCCCCGTAGAAGGAGAAATCACCATTCCCTATGA
GATCTCGCATCCGGGAGTTTGACAGCTCCACATTAAATGAATCTGTTTCGCAATACCATCATGCGTGATCTAAAAG
CTGTTGGGAAAAAATTCATGCATGTTTTGTACCCAAGGAAAAGTAATACTCTTTTGAGAGATTGGGATTTGTGGG
GCCCTTTGATCCTTTGTGTGACACTCGCATTAAATGCTGCAAAGAGACTCTGCAGATAGTGAAAAAGATGGAGGGC
CCCAATTTGCAGAGGTGTTTGTTCATTGTCTGGTTTGGTGCAGTTACCATCACCTCAACTCAAACTTCTTGAG
GGAACATATCTTTTTTTTCAGAGCCTCTGTGTGCTGGGTACTGTATACTTCCCTTGACAGTAGCAATGCTGATTT
GCCGGCTGGTACTTTTGGCTGATCCAGGACCTGTAACTTCATGGTTCGGCTTTTTGTGGTGATTGTGATGTTTG
CCTGGTCTATAGTTGCCTCCACAGCTCTCCTTGCTGATAGCCAGCCTCCAAACCGCAGAGCCCTAGCTGTTTATC
CTGTTTTCCCTGTTTTACTTTGTTCATCAGTTGGATGATTCTCACCTTTACTCCTCAGTAAATCAGGAATGGGAAAT
TAAAAACCAGTGAATTGAAAGCACATCTGAAAGATGCAATTCACCATGGAGCTTTGTCTCTGGCCCTTATTTGTC
TAATTTTGGAGGTATTTGATAACTGAGTAGGTGAGGAGATTAAAAGGGAGCCATATAGCACTGTCACCCCCTATT
TGAGGAACTGATGTTTGAAAGGCTGTTCTTTTCTCTCTTAATGTCATTTCTTTAAAAATACATGTGCATACTACA
CACAGTATATAATGCCTCCTTAAGGCATGATGGAGTCACCGTGGTCCATTTGGGTGACAACCAGTGACTTGGGAA
GCACATAGATACATCTTACAAGTTGAATAGAGTTGATAACTATTTTCAGTTTTGAGAATACCAGTTCAGGTGCAG
CTCTTAAACACATTGCCTTATGACTATTAGAATATGCCTCTCTTTTCATAAATAAAAATACATGGTCTAAAAAAA
AAAAA

1907/2825
FIGURE 1695

MAEAEESPGDPTASPRPLFAGLSDISISQDIPVEGEITIPMRSRIREFDSSTLNESVRNTIMRDLKAVGKKFMH
VLYPRKSNTLLRDWDLWGPLILCVTLALMLQRDSADSEKDGGPQFAEVFVIVWFGAVTITLNSKLLGGNISFFQS
LCVLGYCILPLTVAMLICRLVLLADPGPVNFMVRLFVVIVMFAWSIVASTALLADSQPPNRRALAVYPVFLFYFV
ISWMILTFTPQ

1908/2825
FIGURE 1696

CGCCGAGGTATCACCTGGCACCACCCGCACCCTCACCCCGTGTCTCCATGCCCTGCCTCTGCTCCCCACACCCCT
CACCTCAAGCTGTCCCCCTCACCTCACGCTTGGCTGTCTCCTGATCCTCAGCCTCTCCCAGGTACCCAGACTCTG
TAGGAGAGTGCCCGAGGGCGGAGGGCCAGCC**ATG**CTGACCTTCCTTCCCTCCCCCAGGAGCTGTTACCCGCTC
ACTGGCTGAGAGCGAGCTCCGTAGTGCCCCGTATGAGTTCCCCGAGGAGAGCCCCATTGAACAGCTGGAGGAGCG
GCGGCAGCGGCTGGAGCGGCAGATCAGCCAGGATGTCAAGCTGGAGCCAGACATCCTGCTTCGGGCCAAGCAAGA
TTTCCTGAAGACGGACAGTGACTCGGACCTACAGCTCTACAAGGAACAGGGTGAGGGGCAGGGTGACGGGAGCCT
GCGGGAGCGTGATGTGCTGGAACGGGAGTTTCAGCGGGTCACCATCTCTGCGGAGGAGAAGTGTGGGGTGCCGTT
CACAGACCTGCTGGATGCAGCCAAGAGTGTGGTGCGGGCGCTCTTCATCCGGGAGAAGTACATGGCCCTGTCCCT
GCAGAGCTTCTGCCCCACCACCCGCCGCTACCTGCAGCAGCTGGCTGAAAAGCCTCTGGAGACCCGGACCTATGA
ACAGGGCCCCGACACCCCTGTGTCTGCTGATGCCCCGGTGACCCCCCTGCGCTGGAGCAGCACCCGTATGAGCA
CTGTGAGCCAAGCACCATGCCCTGGGGACCTGGGCTTGGGTCTGCGCATGGTGCGGGGTGTGGTGACGTCTACAC
CCGCAGGGAACCCGACGAGCATTGCTCAGAGGTGGAGCTGCCATACCCTGACCTGCAGGAATTTGTGGCTGACGT
CAATGTGCTGATGGCCCTGATTATCAATGGCCCCATAAAGTCATTCTGCTACCGCCGGCTGCAGTACCTGAGCTC
CAAGTTCCAGATGCATGTGCTACTCAATGAGATGAAGGAGCTGGCCGCCCAGAAGAAAGTGCCACACCGAGATTT
CTACAACATCCGCAAGGTGGACACCCACATCCATGCCTCGTCTGCTGATGAACCAGAAGCATCTGCTGCGCTTCAT
CAAGCGGGCAATGAAGCGGCACCTGGAGGAGATCGTGACGTGGAGCAGGGCCGTGAACAGACGCTGCGGGAGGT
CTTTGAGAGCATGAATCTCACGGCCTACGACCTGAGTGTGGACACGCTGGATGTGCATGCGGACAGGAACACTTT
CCATCGCTTTGACAAGTTTAATGCCAAATACAACCCTATTGGGGAGTCCGTCCTCCGAGAGATCTTCATCAAGAC
GGACAACAGGGTATCTGGGAAGTACTTTGCTCACATCATCAAGGAGGTGATGTGACACCTGGAGGAGAGCAAATA
CCAGAATGCAGAGCTGCGGCTCTCCATTTACGGGCGCTCGAGGGATGAGTGGGACAAGCTGGCGCGCTGGGCCGT
CATGCACCGCGTGCACTCCCCAACGTGCGCTGGCTGGTGACAGGTGCCCGCCTCTTTGATGTGTACCGTACCAA
GGGCCAGCTGGCCAACTTCCAGGAGATGCTGGAGAACATCTTCCTGCCACTGTTTCGAGGCCACTGTGCACCCCTGC
CAGCCACCCGGAACCTGCATCTCTTCTTAGAGCACGTGGATGGTTTTGACAGCGTGGATGATGAGTCCAAGCCTGA
AAACCATGTCTTCAACCTGGAGAGCCCCCTGCCTGAGGCGTGGGTGGAGGAGACAACCCACCCTATGCCTACTA
CCTGTACTACACCTTTGCCAACATGGCCATGTTGAACACCTGCGCAGGCAGAGGGGCTTCCACACGTTTGTGCT
GAGGCCACACTGTGGGGAGGCTGGGGCCATCCACCACCTGGTGTCAGCCTTCATGCTGGCTGAGAACATTTCCCA
CGGGCTCCTTCTGCGCAAGGCCCCCGTCTGTCAGTACCTGTACTACCTGGCCCAGATCGGCATCGCCATGTCTCC
GCTCAGCAACAACAGCCTCTTCCTCAGCTATCACCGGAATCCGCTACCGGAGTACCTGTCCCGCGGCCTCATGGT
CTCCCTGTCCACTGATGATCCCTTGCACTTCCACTTACCAAGGAGCCGCTGATGGAGGAGTACAGCATCGCCAC
CCAGGTGTGGAAGCTCAGCTCCTGCGATATGTGTGAGCTGGCCCGCAACAGCGTGCTCATGAGCGGCTTCTCGCA
CAAGGTAAAGAGCCACTGGCTGGGACCCAACTATACCAAGGAAGGCCCTGAGGGGAATGACATCCGCCGGACCAA
TGTGCCAGACATCCGCGTGGGCTACCGCTACGAGACCCTGTGCCAGGAGCTGGCGCTCATCACGCAGGCAGTCCA
GAGTGAGATGCTGGAGACCATTCCAGAGGAGGCGGGTATCACCATGAGCCCAGGGCCTCAAT**TG**AGCCTGGTCCAT
GAAGTGCCCAACCATCGCAGCACTTTTACCACGTTTTGTCTCAGACCCCGCCATGCTGTGTGGTCTCTGCAT
GTCTCCATTCTTCTGTCTCTGTCTTGTCATGTCTCTACCATGTCACTGTCCCTGGGCCACCCAGTGAAAGCAA
AGCCTGGGAATCTGCTCATTGTTGTTTGGGCTCAGGTATTGAGCCTGATGGCCCAGGTATTGAGGGCCTCCCCTG
CTGGTGGCCCTGTCTTGGGATCCTCAGAAGCCTGACTGTCTATGGGCTTCTCCAGTGTCCACAGGGGCTTGGGA
TGTTTGTGGGGGGCTGGCCCCCTTAGCCTTTCCGGTCCCTTCTGGGCAAATCTAAGCCTTGGCCAGGGCGAAGTT
TAGGCCCCCTGTCTTGTTCATGTAGCCGAGGGGCAGGCGGGGGACCTCTACACCTCTGCTGTGGGCACGGGGCTGC
TGAGGGTCTGTGGAACCTCAGCAGCTCTGCACTGGGTAGAGCTGGGCCCTAGAGCTCAGTCACAGGCCTGGGCTTC
CTGGCCTGAGTGGGTAGACGCAGGCGGCAGAGGTGCTGGACCACATCTCCGCCAAGTCACTGCCCAGCAGCCTTC
TCCGTCTGTCCCCAGCCACGTGCTCCTTGGGTGTCAGCTTCCTGTGCCTCTGTGGGAGAGGCAGCTGCCTTGT
GTTATGTCTGGGGCCACAGTTGCTGCAAAGTCCTGGATCTGCCACTCAACCCGGGAGTGGTGTTCAGTGTGG
CTCCAGAGCTTTGACCAGATTGTGATCCAGCTGGCCCCATGTTGTGTTCTGGACTGAGGCCTTTGCTGTGAA
CTGCAGTGTTCATACGAACCATCTTTCCTAGTGCATGAGAAATAAAGATTATTTAAGT

1909/2825

FIGURE 1697

MLTFLPSPQELFTRSLAESELRSAPYEFPEESPIEQLEERRQRLERQISQDVKLEPDILLRAKQDFLKTDSDDL
QLYKEQGEGQGDSLRELDVLEREFQRVTI SGEEKCGVPFTDLLDAAKSVVRALFIREKYMALSLQSFCTTTRY
LQQLAEKPLETRTYEQGPDTPVSADAPVHPPALEQHPYEHCEPSTMPGDLGLGLRMVRGVVHVYTRREPDEHCSE
VELPYPDLEFVADVNVLMALIINGPIKSFCYRRLQYLSSKFQMHVLLNEMKELAAQKKVPHRDFYNIRKVDTHI
HASSCMNQKHLRLFIKRAMKRHLEEIVHVEQGREGTLREVFESMNLTA YDLSVDTLDVHADRNTHFRFDKFNKY
NPIGESVLREIFIKTDNRVSGKYFAHI I KEVMSDLEESKYQNAELRLSIYGRSRDEWDKLARWAVMHRVHSPNVR
WLVQVPRLFDVYRTKGQLANFQEMLENIFLPLFEATVHPASHPELHLFLEHVDGFDSDVDESKPENHVFNLESPL
PEAWVEEDNPPYAYYLYYTFANMAMLNHLRRQRGFHTFVLRPHCGEAGPIHHLVS AFMLAENISHGLLLRKAPVL
QYLYYLAQIGIAMSPLSNNSLFLSYHRNPLPEYLSRGLMVSLSTDDPLQFHFTKEPLMEEYSIATQVWKLSSCDM
CELARNSVLMMSGF SHKVKSHWLGPNYTKEGPEGNDIRRTNVPDIRVGYRYETLCQELALITQAVQSEMLETIPEE
AGITMSPGPQ

1910/2825
FIGURE 1698A

ATGGAGGGCCTGGCTGGCTATGTATACAAGGCGGCCAGCGAGGGCAAGGTGCTGACTCTGGCCGCCTTGCTTCTC
AACCGGTCTGAAAGCGACATCCGCTATCTGCTTGGCTATGTCAGCCAGCAGGGAGGGCAGCGCTCCACGCCCTC
ATCATCGCAGCCCGCAATGGACACGCAAAGGTGGTACGCTTGCTCTTAGAACATTACCGGGTGCAGACTCAGCAG
ACTGGCACCGTCCGCTTCGACGGGTATGTCATTGATGGTGCCACTGCTCTTTGGTGTGCAGCTGGAGCAGGACAT
TTTGAAGTTGTTAACTTCTAGTCAGCCATGGAGCCAACGTGAACCATACCACAGTAACATAATTCAACCCCCCTG
CGGGCAGCATGCTTTGATGGCAGACTGGACATTGTGAAATACTTGGTTGAAAATAATGCCAACATCAGCATTGCC
AACAAATATGACAACACCTGCCTAATGATTGCGGCATATAAGGGACACACTGATGTGGTCAGATACCTTTTAGAA
CAACGTGCTGATCCCAATGCCAAAGCACATTGTGGAGCCACAGCATTGCACCTTTCAGCTGAAGCTGGGCACATA
GATATTGTGAAAGAGCTGATAAAATGGCGTGCTGCTATAGTAGTGAATGGCCATGGGATGACGCCATTGAAAGTA
GCTGCCGAAAGCTGTAAAGCTGATGTCTGTAAGCTGTTACTCTCTCATGCTGATTGCGACCGAAGAAGTCGGATT
GAAGCTTTGGAACCTCTTGGGTGCCTCCTTTGCAAATGACCGTGAGAACTATGACATCATAAAGACATACCACTAT
CTATATTTAGCCATGTTAGAGAGGTTCCAAGATGGTGATAACATTCTCGAAAAAGAGGTTCTTCCACCAATCCAT
GCTTATGGGAATAGAAGTGAATGTAGAAATCCTCAGGAACTGGAGTCCATTTCGGCAAGACAGAGATGCTCTTCAT
ATGGAAGGCCCTTATAGTTCGGGAACGGATTTTAGGTGCTGACAATATTGATGTTTCTCATCCCATCATTTACAGA
GGAGCTGTTTATGCGGATAATATGGAATTTGAGCAGTGTATCAAGTTGTGGCTTCATGCCCTGCACCTCAGACAA
AAAGGTAACAGGAACACCCACAAGGATCTTCTTCGATTTGCTCAAGTTTCTCACAAATGATACATTTGAATGAA
ACTGTGAAGGCCCCAGACATAGAATGTGTTTTGAGATGCAGTGTTTTGGAATAGAACAAAGTATGAACAGAGTG
AAAAATATTTTCAGATGCTGATGTCCACAATGCTATGGACAATTATGAATGTAATCTCTATACCTTTCTGTATTTA
GTGTGCATCTCTACCAAAACACAGTGCAGCGAAGAAAGATCAGTGCAAAATTAACAAGCAGATCTACAACCTGATT
CACCTTGATCCCAGAAGCTCGTGAAGGTTTACCTTGCTGCATCTGGCTGTCAACTCCAATACTCCAGTTGATGAT
TTCCACACCAATGACGTCTGCAGCTTTCCAAATGCACCTTGTCACAAAGCTCCTGCTGGACTGTGGTGCTGAGGTG
AATGCCGTGGACAATGAGGGAAACAGTGCCCTTCATATTATCGTTTCAGTACAACAGGCCCATCAGTGATTTTTTG
ACCTTGCACTCCCATCATCATTAGCCTAGTTGAAGCCGGAGCTCACACTGACATGACGAATAAACAGAATAAGACT
CCGCTAGACAAAAGTACAAGTGGGGTATCTGAAATACTGCTTAAACTCAAATGAAGATGAGTCTCAAGTGCCTG
GCTGCCCCGAGCAGTTCGGGCTAATGACATTAAGTACCAAGACCAGATCCCCAGAAGCTTGAAGAGTTTGTGGA
TTTCATTAAGTGACTGGATATGTAAAGTCGTTTAAATGTGGTGCTAAAAAGTAAAGGACTTTTAATCACAGACAGT
AGAATTATGTGTTTATAAATCTGCTTTTCTTTCCACTACCCTTCCCTCCCATCCCATCCTTCTTAGTTCTGTAT
TTGTTTTCTTGCTCATGGTAATTGATTTTACAGACAGACTTTAACAAAACACATTGTTTTGGTGTAACATAAG
GTATTTGCATATTGGTTACCTATTTGTCTTTCTTTTTTAAAGGAACAGATATAAAATGTTTTGTTTATGTAAC
AAGGGACATTTATAAATTTCAAGTTGATAATGTTTTAAACAGCTGCTTACAAAAGTATTTCTGTAAAGCCTATGTC
AGCATGTTATCCATGCAGCAGTTTTGAGGATTTTATGAAGAAAAAGAGCTAAAAAGGAACATTAAGAGGAATGGG
ATATCCAGGTGTTCTGCACATGCCAAACTGCTGTAGATAGTTTACACTCTTCCATTATTTATACGGAGTGATGCA
GCACATTTTAGCATTTCAGGAGGATTTTTAAAAAATAGCTGCAGATTAATCTGGAAAATGTGCTAATTTAATAATA
GTTACAAAATTTATAAATTTAAATCCATTTGAAATGTTGTCATTATGCTGGGTAGTATATACAAAATGGTTATCAT
CTTAAACCAACTTTTCAGAGAATCTTGATGGACTCTGCCTTTAGGCTTGAATTCTTCAAAGTCTATTTTAATGAA
ATTTATCTAAATTGCAGCAGTCTATTTGATTTCAGCTCATAGACATGTAAAAATTATGAATGCTGTTTTCTTATGA
AACAAATTGTCACAGTGTAGTTATACATTCTATTTTTGTCCCCTTTTCCCTTTTTCTCCTGTATCTTTTAAATTT
TGGAAACTACTTTTTCCAGAAGGCATTATTTATGCCTCCCTAATAAGGTATTTTACTTATGACAGATGAAAAGGAA
CCAGGATATGTTTGAATTTTTTCACTTTCTTAGTCTGTGACAAGAAGTAGAAATATCACTAGTGTGGTATAGGAA
CTTACATGTTTTTTATGATGAAAATAATTTCTCAATGCCACTTGAAAGGTAATTGTGTCTGAGAGCTGCAAAATTTT
TCAACCACAAAATGTCACCTTATTCCTACAGGCTATACAGAGGTCTTTATGGTTTTTTTTGTTTTGTTTTAATGGCA
ACATTGTAAGTGTCAAATAAAAGGGTATTCTGTGATTATCTTTTAAAGCATTACAGAAATTCAAGTGAAAAGTTAT
ATGCTTATTTCTATTGATGTTAAAAATGATAATGAAAGCAAAATTAGCTGTATCTGTAATTTTCTCTCTAGTGCC
AAATGAATGCCTTAGCTACTCATAGTGCATGGTACTGTAAGTGAAGACCTGTAGCTTTTTTTTTTTCTTTAATGA
AAAGCATTATAATGATGTAGCAGCATCAGATATAAACTTAAAAAAAAGGTTTCAATTAACATTTTATATATGGA
TAATGCTTTGTAAAGTGTAAAGAGAAAGGTTGCAGTTGGATCAGTATAAAACAATGACCAAGCCAAAATCAGCACC
CTAGGGCCTTAAATAAAATAGAGATACCCACAAAATGAAATATTTTGAAGGATGGGAGGGGACAGAAGGGGGGA
CTATCCCCCAAGGATGCAAGATACTTTTTACAGTTGCTATCATTATACTTTGTCTTCTTGCTTCAGTTAGGAAGG

1911/2825
FIGURE 1698B

TTTTGATGGTAAATTCTGTCATGGTAATAGATACCTATTTTCCTAACCTGAGATTTTACAAGGAAGGTTTTTAGG
TTGGCTTAAATGGAGGTATTTATTTGAGTGAGCCCTAATTTGAAAATTACCAGACTTGATCCTCCTGGTATGAAT
CAAGGAAATACTGTACCTTGCTCTTAGCAACTCTCAGTGGCCTGAAAGAGAAAATGCACCTTCTTCAAGGTGAGTG
AATCATGCTTTTTCCACAGTTCAGATCAGACCCCTTATTTTTTCAAACCTACAAGGCCTGCTTATTGGACAGTCTAA
GGAATAGCTTTTGATACTTGGTATTCAGTTGGTTCCATTATTAATGTATATTATTTTTATTAAACATCAAACTT
AAAATATCAGATAATGTTGCATGTTTTAAAAACACATTTTCATCCCTTTGGCTACCCAGGACCAGCACTATTTAAG
ACACTGCTTATTTATAAAATGAGAATAATGATTATATGTACATATTCAGACATCAAAATTTAATGACATTCTATT
TTGAGAAGGGAAGACAATGCTGAAGAAAGTAAACTGTTGATTGAAATGCTGACAGGGTGGAGAACGAATTTGAA
GACAGTGAATAAACTATGAACTATGCTAATGGTAATTAGATTTTTTGTGTTTGTAGTATAGTGGTAAATTGTGT
AGTATCTTGCTGAGAATCTAATTCTATCTTGTAATAATCAATCCAAATGTGTATTGTGAAACACCTGTATAAAATC
ATTTTTGAAATAAGTGATCTACATGCCTGTTTTTTTTTAAATGTTTTTGGTAGAATTGTTTGAAAATATGTTTAGC
CAGACCCCTTCCCAACTTAATTTTTTTTTTAAAAAAGGAAAATAGGTAAGAAAATGATAGTTCTATATCTCAGCCC
TCTGTGAACCTCTAGGCTGTCTCCATTTTGCAGCCACTTTGGTTCATTTGATGTTTACTATTGGTATACTTATGCTT
TGAATTGTAAATCTTCATTGATGGTATTACAGATTCACCCAAACTTCTCTGTCCTGTTTCAGTAATTGTTATATA
AATCTGGATGAGCTAGGGAGGCCAGGTGGATGTTTTTCATTGCAAATCATGAGAACTTAAGTGGGTTTTATGC
ACTTGATAGAGTTGGCAAATGAACTATGAAGTTAACTATTTAACTCAAGGAATGGGCGGCAAACCCATCCCCT
CGATTGATAAAGAAGGGGAACATTTTTTACATTAGAAGTACACTGAAAACATAGCTTTTTTCAGTCCACCCCTGGTT
GCTCTAGTAGCCACAGCCCAATCACGTTAAGGTTCTTTGCTGTGGGAATTTTAAATAAACCAAACCCCAAAGCA
GACCATCTGTAAGCTTTGGTCTGCTTGTTTCTGAGAAGGGTTTTATTTCAATTATACTAATAGTGGACTAATAATT
GGTAATTGTGAGAACTTAGGTATGATAACATTGTTTGAAGTAAAATATGATTTGGGGGCAGCAGCTTTCTAAATA
CCAACCTCTGTTTGACAAATGTTTTGAAAATTAATAATTTCAAGTGAGCAACACCCTGTAAAGAGTTTTCACTATAG
TTGAGGCAGCTACTTTATGAATAAGACCCTTTGGGTTATTTAAGCAGAAGCGTTTTCTTTTTTTTTTTTGGAAATG
GGGTGGGATGAGGAGTGAGTTGCCAGACCTTTGATTAGTTTGCTGGTTTAGAAACAGCCAGTGGCTGAATTAGTG
AGTAAATGAATGAAAGTATAAAGGACTTGTTTTTATGATAGATTTTCTGTAAGAATCTTAAATGTTCCTTTTCA
AATTAGATGTGTTGATGCACACATGACTATTCTGTTTTTCTCACTGACTATATAACATTAAAAAGGGTTAAAGA
AAACAAAACCTCTGCCTTTTGTGCTATGAAATATTTTAGTCCAGAGGTTTTAAGCTGTGTGTCCATTCCCTACTCT
GAAAATGCATAGCTTTGTTCTGGATGTCATCTCTTGAAAGTAGAAAACCTCCTATGTGTTTATCACATTGCAGGGC
TTTCTTATGATTTCTGGCAGACTTGCCCAAATCTTTAGATGGGCTGGGTTATACAGCATGCCCTCCCCCAAATA
AGGGATCTGAAATAAATACTACACTATTGATAGTGGAGATATATTAATTTTTTAAACTGTAAAGTAAATGTGGTC
TCTAGGTTTGTGGTGTGTACCTTTGTGTTAATGTGTAGGGAAGAGACAGTGACTTGATGGTTATGGGGAGTGTAT
CTTGATGTGTGTATAGGGGTAAGTATTGCTAAATATTTTACAGCTTTTATTCAGGGTGAGTCATGTGATGAATGG
CCTAATCAGAAAAGTGAAGGAGCGAAGATGCAAGCTTGCCAAATGATGAAATGAACAAGATTTTGTATCTATTTT
TTATCAGGTGTTGTAAAATTTGTGCATGGCTTTTTGTTGTTGTTGCTTAGTAACTGGTAGAGGAGAAAAGATGAG
GAAAAGAACTCAGCTTTCCTCACAGTCTTTTCAAAGGTACACAGTTGGGGAGTAAAATCTGACTGGCCTAATCGA
TGGAAAAGACCCTGTCCTTTTCACCCCATCTGCAATCCTCCGTGCAGAGGAACTACACTGTTGTATTCTAGTAA
TTCACTGTGATTTATAACAAACCGGTGATGTCATTCTATTGTGCACTTTTGTCAAACCATTTATGTGACTTTAAT
AAACATAGTAACTTGCTGACTGCACCAGAGGTCCATTAGTGATTTATATATTGCATGACATTTTCTATTTGAGT
TTGACATGTAGAGTCATTTTTAGTTTCATGGCAATTGACAGTCCTAATAACTCAGCTAATTTGAAACTAACAATC
TTGCTGTGTAAAAGGAAAAAATGGTGTGTTGTGTTTCAGTAAATGTTTG

1912/2825
FIGURE 1699A

GGTGAACAGCTCAAATCCATTTTTTACATCACAGACCAAAGCCAATGGGAATCCTGCTTGTTCGGCCCAGTTGCA
GCATGTCTCGCCACCCATTTTTCCAGCTCATTTAGCAAGTGTGTCAACTCCATTGTTGTCTCAATGGAAAAGTGT
CATAAATCCAAATATAACTTCTCAGGATAAAAAATGAACAAGGTGGTATGTTATGTTCCCAAATGGAAAAATTTACC
TAGTACTGCCTTGCCAGCACAAATGGAAGATCTAACCAAAACAGTTCTGCCTTTGAATATTGACAGTGGCTCAGA
TCCTTTCCCTTCCTTTACCTGCAGAAAGTAGTTCAATGTCTCTCTTCCCTTCACCAGCAGATAGTGGGACTAATTC
TGTTTTTTCCCAACTGGAAAATAATACAAATCATTATTCCTCACAGATTGAAGGAAACACTAATTCCTCCTTTCT
AAAGGGGGGTAATGGTGAAAATGCAGTTTTTCCTTCACAAGTGAATGTTGCAATAACTTCAGTAGCACCAATGC
CCAACAGTCTGCACCTGAAAAAGTTAAAAAAGACCGTGGGCGGGGCCCAAATGGGAAGGAAAGAAAACCTAAGCA
CAACAAAAGGGCTAAATGGCCTGCAATTATCAGAGATGGGAAATTTATCTGTAGCAGGTGTTACAGGGCTTTTAC
TAATCCCAGATCACTGGGTGGGCACTTATCCAAGCGATCTTACTGTAAACCACTGGATGGAGCCGAAATTGCTCA
AGAACTTCTACAGAGTAATGGACAGCCTTCTCTTCTTGCCAGCATGATTCTCTCCACAAATGCAGTAAATTTGCA
GCAGCCACAACAATCTACCTTCAATCCAGAAGCATGTTTTAAAGATCCATCATTTCTACAGCTTCTTGCTGAAAA
TCGCTCGCCAGCATTTTTTACCAAATACATTTCTCGATCTGGTGTGACTAACTTTAATACCAGTGTCAAGTCAAGA
AGGTAGTGAAATTATTAACAGGCTTTGGAACTGCTGGCATTCCCAGTACATTTGAGGGTGCCGAAATGCTTTC
TCATGTTTCAACAGGTTGTGTCTCTGATGCATCACAAGTAAATGCAACGGTGATGCCAAATCCAAGTACCACC
CCTGTTGCACACTGTATGCCATCCAAACACCTTGCTGACCAACCAGAATAGGACGTCAAACCTCCAAAACCTTCCTC
CATTGAGGAATGTAGCAGCTTGCCTGTTTTTCCAACGAATGACTTACTACTGAAGACTGTTGAAAATGGTTTTGTG
CTCTAGTTCAATTCCTAATTCTGGTGGGCCATCACAAAATTTTACCAGTAACAGTTCTCGTGTCTTGTATATAAG
TGGTCTCAGAACACAAGATCCAGTCATTTAAATAAAAAAGGGAACAGTGCTTCTAAGAGAAGAAAAGAAAGTTGC
TCCTCCACTAATTGCACCTAACGCTTCCCAAAAACCTTGGTAACAAGTGACTTAACAACAATGGGACTCATAGCAAA
GAGTGTGAAATCCCAACTACTAACCTTCATTCAAATGTAATTCCAACCTGTGAACCTCAGAGTTTGGTGAAAAA
TCTAACACAGAAATTAATAATGTTAACAATCAGTTATTTATGACTGATGTAAAAGAGAATTTCAAAAACAGTCT
TGAGTCCCATACAGTGTTAGCCCCTTTAACAATAAAAACTGAAAATGGTGATTCCCAAATGATGGCTTTGAATTC
ATGCACAACCTTCAGTAAATTTCTGATTTGCAGATTTCTGAAGACAATGTTATACAAAACCTTTGAAAAGACTCTTGA
AATTATTA AAACTGCTATGAATTCTCAAATACTTGAGGTAAAAAGTGGATCTCAGGGTGCTGGTGAAACTTCACA
AAATGCTCAAATAAATTATAACATTCAGCTTCCTTCAGTAAACACTGTGCAAAATAACAAATTACCCGATTCCTC
TCCGTTTTCTCCTTTTATAAGTGTGATGCCAACAAAAAGTAACATTCTCAGTCTGAAGTATCACATAAGGAGGA
TCAAATACAGGAAATTTTAGAAGGCTTACAGAAATTAATAATGACCTATCCACTCCAGCATCCCAATG
TGTAAGTATAAATACATCAGTGACACTGACTCCACGCTGTTAAATCAACTGCAGATATCACAGTTATTCAGCC
AGTTTCTGAAATGATAAACATTCAATTTAATGACAAAGTTAATAAACCTTTGTGTGTCAAACCAAGGCTGTAA
CTACAGTGCTATGACAAAGGATGCACTATTTAAGCACTATGGTAAAATTCATCAATACACTCCAGAAATGATTCT
TGAAATTAAGAAGAATCAATTGAAATTTGCTCCCTTTAAATGTGTAGTACCTACATGTACAAAAACATTTACAAG
AAATTCTAACCTCCGGGCACACTGTGAGTTGGTGCATCATTTTACAACCTGAAGAAATGGTAAAGTTAAAAATTAA
AAGGCCCTATGGAAGAAAATCTCAGAGTGAAAATGTGCCGGCTCACGAAGTACACAAGTGAAAAAACAGCTAGC
TATGACAGAGGAAAATAAAAAAGGAATCTCAGCCTGCTTTAGAATTGAGAGCAGAGACCCAAAATACCCACAGTAA
TGTAAGCAGTGATCCCAGAAAAACAACCTTATAGAAAAAAAAGTCTTGACAAAACAGAAAGTTCTTTACAAGTGAT
TACAGTTACTTCAGAACAAATGTAATACAAATGCACTCACAAACACACAAACCAAAGGACGGAAGATTAGGAGGCA
TAAAAAAGAAAAGGAGGAGAAAAACGAAAGAAGCCAGTTTCCCAATCCCTTGAGTTTCCAACAAGATACAGTCC
TTACAGACCTTATCGATGTGTTTACCAGGGATGCTTTGCTGCCTTTACGATACAGCAAAATTTGATTCTCCATTA
CCAGGCTGTACACAAATCAGATCTACCTGCATTTTCAGCAGAGGTGCAAGAGGAAAGTGAAGCTGGTAAAGAAAAG
TGAAGAAAACCTGAACTAAACAACTTTTGAAGAATTTGATGTGAGGTAAAGTGAAGTGTCTCGAATTTTCCAAGC
AATTACTGGCCTAATACAACACTACATGAAACTTCATGAAATGACTCCTGAAGAAATTGAAAGTATGACTGCTTC
AGTGGATGTTGGGAAGTTTCCATGTGACCAGTTAGAGTGTAATCTTCATTTACTACATATTTGAACTATGTTGT
TCATCTAGAGGCAGACCACGGGATTGGACTAAGGGCAAGTAAAACAGAAGAAGATGGTGTATACAAATGTGATTG
TGAAGGCTGTGACCGTATATATGCAACCCGGTGAATCTCCTCCGACACATTTTTTAATAAGCATAATGACAAACA
TAAGGCTCATTTGATTGCTCCAAGAAGATTAACACCAGGCCAGGAAAATATGTCAAGCAAGGCAACCAAGAAAA
ATCAAAGTCTAAACATCGGGGGACGAAGCACAGCAGATGTGGAAAGGAAGGAATAAAAATGCCCAAGACCAAACG
AAAGAAAAAAAATAATTTAGAAAACAAGAATGCAAAGATTGTGCAGATTGAAGAAAATAAGCCTTATTCTCTGAA

1913/2825
FIGURE 1699B

ACGTGGGAAGCATGTATATTCTATAAAGGCTAGAAATGATGCCCTGTCTGAGTGTACAAGCAGATTTGTAACCCA
GTATCCATGTATGATAAAGGGATGTACTTCAGTTGTTACAAGTGAAAGCAATATAATTAGACATTATAAGTGCCA
TAAATTATCTAAGGCATTTACATCACAAACACCGAAATCTTCTTATTGTATTCAAACGGTGTGCAACTCACAACT
AAAGGAAACGTCTGAGCAAGAAGGTGCTAAGAATGATGTGAAAAGATTCTGACACGTGTGTATCAGAGAGCAATGA
TAATTCAAGAACAACAGCTACAGTTTCACAAAAGGAAGTTGAAAAAAATGAAAAAGATGAAATGGATGAACTAAC
AGAATTGTTTATTACAAAATTAATAAATGAAGATAGCACAAAGTGTAGAGACCCAAGCTAATACTTCTTCAAATGT
AAGTAATGATTTTCAGGAAGATAACCTCTGCCAGTCAGAAAAGACAAAAAGCAAGTAATTTGAAGAGAGTTAATAA
GGAAAAAAATGTCTCACAAAATAAAAAAAGGAAAGTTGAAAAAGCTGAACCAGCATCAGCAGCTGAGTTAAGTAG
CGTGCGTAAAGAAGAAGAACTGCTGTTGCCATTCAAACCATTGAGGAGCATCCTGCATCTTTTGACTGGAGCTC
TTTTAAGCCAATGGGATTTGAAGTATCATTTCTGAAGTTTCTTGAGGAGTCTGCAGTGAAGCAGAAGAAAAATAC
TGACAAAGACCATCCGAATACTGGAAACAAAAAAGGATCCCATTCAAATTCAGAAAAAATATTGATAAGACTGC
TGTGACTAGTGGAAATCATGTATGTCTTGTAAAGAAAGCGAAACGTTTGTACAGTTTGCCAATCCATCACAGCT
TCAGTGCAGTGATAATGTAAAAATTGTTTTAGACAAGAATCTTAAAGATTGCACTGAGCTTGTCTTAAAGCAACT
TCAGGAAATGAAACCTACCGTCAGTCTGAAAAAAGTTGAAGTACATTCAAATGATCCAGATATGTCTGTTATGAA
AGATATCAGTATAGGTAAAGCCACAGGCAGAGGTGAGTACTGATATAATTAATGTAGTATAAATACATCATTACCA
TTTTATTTTAAATAGGAAGCCATCAAGCATGCTAGAATTGTGAAACTTTTATTATATTTTTTTGTTGTTGACATG
AATTAACCTGGCCAAAAACAAAAAGAAAAAAGAAAAACATGACATTTGTGATGTAAACTTTTTTTTATCCCTATG
GGACTTGAGGAACAGAATCAGTACTTCAGTTATTGTAAATAGTGAGCTAAACCTCAAATTTCTATCACCAGTTG
CCCTTTTCATGAACATAACAATTATCTGTGTGATTGGTATGTTTCACCAGGTCAGTCTCATGTATAACAGTACT
CTTTATTTGTAGATACCTTTTTTTGTATATATTTATTATTGTAAATCATGTGCTGCCACCAGCAGTCTGTAAAGTCT
AAACTATTAAATGACACATTTATATTTGGAATTTTAATTTTTTAAGCGATCAAGTTTTTTAAATTGTTCTTT
TATTGTTTTAAATTAAGAAGCTTTTTGAACTAAAAACCAGAACTCTGCCATAGTTCATTGATTTTTACATGAAACA
TTTATTACAGATGATATCAAGATTACTTTTCACAAAATAGGCACATTATATCAACACTTTGCTCTGCTTTGTA
AATTTGCCATCCAGGATTTTGGGGTGGTATTCATGTGAAATTAAGCAGATTCTCTAGCAGTTTCTCTATAGCTAC
AGTTTTTTTTTTTTCATTGCTTCTAATTGGATATAGTTACTATGAGTCCATGAAATACAATGGAAATGTGAATAAA
GAATTTACTACATTGAAGATTTTAAACATTTGGTATTAAAAAATCCTTTGTGAATGTGATAGAAAACCTAGTA
GTGTGGAGCAGTGTAATATTTGAGGTGGTGAATTTGTGAAGTAGCCAGTATTGCCTTAAATAAAATCACATTTT
ATTTCTTGTTTTATACATGTGATCTTATAAAGATTTTTTGTTTTGTTTTGTTTTCCATTTTCTGAGATTTATAGA
TTGGTGTATAGCTTTAAACTGTATAAAGTTTTGTGGAAAGATTTTTTTAAACATTTTATAAATCTTAAATTTGA
TATCATCAAAGTGAGCCCATCTTGTTTATAAAATACAAGAGTCCTTAACATTTATAATTACATAGATAAAACA
CTTCTATAAGGAAGTTGGATGTTTTGATTTTACTGTTTATAGATGTTAGATTGTACAGATTTGTCTGTATTTCT
CACCATATCTAATGATACCTTTTTTCATTAGATTGGTCTTCAAGAACAGTATTAGTTATAATTATTTTGGTTATTC
AGTATATAGTTAGCTCTTACAGTTTAGCTTTATTCACCATATTTATACTGTGGATTCACAGCGAGAGGTAGAGGT
TATTCAGGAGAGTTGATGACCTTCATTTAAAGTCCAACATAAATCAGTAGTAGAAACATAAGAAAACATCTTTG
CAATATTTACTTTTGTCTTGTGTTGCCGTAAATAGTAACATTGTTTTTTTTTATTTTGTGTTTGTATAAAAACAG
TTGCATTACAAATATTATTGGCCTGAGATATTGATGATATTGTGATGGTATGAAAATGTGTACATTCCCTGTGCA
ACATCAGATTTGCAGGAAAAATGAAGCACTTACTGAAATCGCTGGTACTCTGAATAAATAAGCATGGTCAAGGAG
TGAACATTTTCTTTTGAAATTTCTTTTTAATTTTTATTATTAAAGTATTTTATTTTGGGCCTTTTGGGTTT
TATTGAATAGTTCAATTCACCTGTTTAAAGACTTACTACCAATAAGCATAAAACCTGACACGTTAAAAATCCCTGCC
CTTTGGTGAGCCCACTGTTATTTATTAAAAATAAAAGTTATTTTATGGGTGATT

1914/2825
FIGURE 1700

VNSSNPFFTSQTKANGNPACSAQLQHVSPPIFPAHLASVSTPLLSSMESVINPNITSQDKNEQGGMLCSQMENLP
STALPAQMEDLTKTVLPLNIDSGSDPFLPLPAESSMSLFPSPADSGTNSVFSQLENNTNHYSSQIEGNTNSSFL
KGGNGENAVFPSQVNVANNFSSTNAQQSAPEKVKKDRGRGPNGKERKPKHNKRAKWPAILRDGKFICSRACYRAFT
NPRSLGGHLSKRSYCKPLDGAETIAQELLQSNQPSLLASMILSTNAVNLLQQPQQSTFNPEACFKDPFSLQLLAEN
RSPAFLPNTFFPRSGVTNFNTSVSQEGSEIIKQALETAGIPSTFEGAEMLSHVSTGCVSDASQVNATVMPNPTVPP
LLHTVCHPNTLLTNQNRTSNSKTSSIEECSSLPVFPTNDLLLKTVENGLCSSSFPNSGGPSQNFTSNSSRVSVIS
GPQNTRSSHLNKKGNSASKRRKKVAPPLIAPNASQNLVTSDLTTMGLIAKSVEIPTTNLHŠNVIPTCEPQSLVEN
LTQKLNNVNNQLFMTDVKENFKTSLESHTVLAPLTLKTENGDSQMMALNSCTTSVNSDLQISEDNVIQNFECTLE
IIKTAMNSQILEVKSGSQGAGETSQNAQINYNIQLPVNTVQNNKLPDSSPFSSFISVMPTKSNIPQSEVSHKED
QIQEILEGLQKLKLENDLSTPASQCVLINTSVTLTPTPVKSTADITVIQPVSEMINIQFNDKVNKPFVCQNOGCN
YSAMTKDALFKHYGKIHQYTPEMILEIKKNQLKFAPFKCVVPTCTKTFTRNSNLRAHCQLVHHFTTEEMVKLKIK
RPYGRKSQSENVPASRSTQVKQLAMTEENKKESQPALELRAETQNTHSNVAVIPEKQLIEKKSPDKTESSLQVI
TVTSEQCNTNALTNTQTKGRKIRRHKEKEEKKRKKPVQSLEFPTRYSPYRPPYRCVHQGCFAAFTIQONLILHY
QAVHKSDLPAFSAEVEESEEAGKESEETETKQTLKEFRQVSDCSRIFQAITGLIQHYMKLHEMTPEEIESMTAS
VDVGKFPCDQLECKSSFTTYLNYVVHLEADHGIGLRASKTEEDGVYKCDCEGCDRIYATRNLRLRHIFNKHNDKH
KAHLIRPRRLTPGQENMSSKANQEKSXSKHRGTXHSRCGKEGKMPKTKRKKKNNLENKNAKIVQIEENKPYSLK
RGKHVYSIKARNDALSECTSRFVTQYPCMIKGCTSVVTSESNIIRHYKCHKLSKAFTSQHRNLLIVFKRCCNSQV
KETSEQEGAKNDVKDSBTCVSESNDNSRTTATVSQKEVEKNEKDEMDELTELFITKLINEDSTSVETQANTSSNV
SNDFQEDNLCQSERQKASNLKRVNKEKNVSQNKRRKVEKAEPASAAELSSVRKEEETAVAIQTIEEHPASFDWSS
FKPMGFVVSFLKFLEESAVKQKKNTDKDHPNTGNKKGSHSNSRKNIDKTAVTSGNHVCPCKESETFVQFANPSQL
QCSDNVKIVLDKNLKDCTELVLKQLQEMKPTVSLKKLEVHSNDPDM SVMKDISIGKATGRGQY

1915/2825
FIGURE 1701A

CGCCGCTCTGAGTCCAGCCTCCTACTGAGAACAGTCCCTCCCTTGTGCGGGTCGCACGGCTAGCCGCAGGTTCCGG
CCACGTCAAATCCATTTTCTAAAAAGCAGGGAGCAGAGCTCTCTCTTCGCCGCCGACGCAGAAAGGAGCTGGGG
AGGAAAAAGCTGCTGCCTTTTTCGCTGGAGATTCTGTTGGGCAAGGCTTCTCATTTTCCCAGGCTGCTTCCCCCTCCC
GGGTGAGGAGCGTCTCTGAGACTAAGGAAAGAGCCTGGAAAATGGAGCAGACCTGGACGAGAGATTATTTTGCAGAA
GGATGATGGGGAGATGGTACCCAGAACGAGTCACACAGCAGCTTTTCTTAGTGACACTAAAGATCGAGGCCCTCC
AGTGCAGTCACAGATCTGGAGAAGTGGTGAAAAGGTCCCGTTTGTGCAGACATATTCTTGAGAGCATTGAGAA
ACCCCTCAGGTACAGACCCAGGCTCTTCGAGACTTTGAGAAGCACCTCAATGACCTGAAGAAGGAGAACTTCAG
CCTCAAGCTGCGCATCTACTTCTGGAGGAGCGCATGCAACAGAAGTATGAGGCCAGCCGGGAGGACATCTACAA
GCGGAACATTGAGCTGAAGGTTGAAGTGGAGAGCTTGAAACGAGAAGTCCAGGACAAGAAACAGCATCTGGATAA
AACATGGGCTGATGTGGAGAATCTCAACAGTCAGAATGAAGCTGAGCTCCGACGCCAGTTTGAGGAGCGACAGCA
GGAGACGGAGCATGTTTATGAGCTCTTGGAGAATAAGATCCAGCTTCTGCAGGAGGAATCCAGGCTAGCAAAGAA
TGAAGCTGCGCGGATGGCAGCTCTGGTGGAAGCAGAGAAGGAGTGTAACCTGGAGCTCTCAGAGAACTGAAGGG
AGTCACCAAAAAGTGGGAAGATGTACCAGGAGACCAGGTCAAGCCCCACCAATACACTGAGGCCCTGGCCCAGAG
GGACAAGAGAATTGAAGAACTGAATCAGAGCCTGGCTGCCCAGGAGAGGCTTGTAAGACAGCTATCTCGGGAGAA
ACAACAAGCTGCTACATCTGTTGGAGGAGCCAACTAGCATGGAAGTGCAGCCCATGACTGAAGAGTTGCTGAAACA
ACAAAAGCTGAATTCACATGAGACCACTATAACTCAGCAGTCTGTATCTGATTCCCCTTGGCAGAACTCCAGGA
AAAAATCCAGCAAACAGAGGCCACCAACAAGATTCTTCAAGAGAACTTAATGAAATGAGCTATGAACTAAAGTG
TGCTCAGGAGTCGTCTCAAAAGCAAGATGGTACAATTCAGAACCTCAAGGAACTCTGAAAAGCAGGGAACTGTA
GACTGAGGAGTTGTACCAGGTAATTGAAGGTCAAAATGACACAATGGCAAAGCTTCGAGAAATGCTGCACCAAG
CCAGCTTGGACAACCTCAGAGCTCAGAGGGTACTTCTCCAGCTCAGCAACAGGTAGCTCTGCTTGATCTTCAGAG
TGCTTTATTCTGCAGCCAACCTTGAAATACAGAAGCTCCAGAGGGTGGTACGACAGAAAGAGCGCCAACCTGGCTGA
TGCCAAACAATGTGTGCAATTTGTAGAGGCTGCAGCACACGAGAGTGAACAGCAGAAAGAGGCTTCTTGGAACA
TAACCAGGAATTGCGAAAAGCCTTGACAGCAGCTACAAGAAGAATTGCAGAATAAGAGCCAACAGCTTCGTGCCTG
GGAGGCTGAAAAATACAATGAGATTGCAACCCAGGAACAAAACATCCAGCACCTAAACCATAGTCTGAGTCACAA
GGAGCAGTTGCTTCAGGAATTTTCGGGAGCTCCTACAGTATCGAGATAACTCAGACAAAACCTTGAAAGCAAATGA
AATGTTGCTTGAGAACTTCGCCAGCGAATACATGATAAAGCTGTTGCTCTGGAGCGGGCTATAGATGAAAAATT
CTCTGCTCTAGAAGAGAAAGAAAAAGAACTGCGCCAGCTTCGTCTTGCTGTGAGAGAGCGAGATCATGACTTAGA
GAGACTGCGCGATGTCCTCTCCTCCAATGAAGCTACTATGCAAAGTATGGAGAGTCTCCTGAGGGCCAAAGGCCT
GGAAGTGGAACAGTTATCTACTACCTGTCAAAACCTCCAGTGGCTGAAAGAAGAAATGGAACCAAATTTAGCCG
TTGGCAGAAGGAACAAGAGAGTATCATTACAGCAGTTACAGACGTCTCTTCATGATAGGAACAAAGAAGTGAGGA
TCTTAGTGCAACACTGCTCTGCAAACTTGACACAGGGCAGAGTGAGATAGCAGAGGAGCTGTGCCAGCGTCTACA
GCGAAAGGAAAGGATGCTGCAGGACCTTCTAAGTGATCGAAATAAACAAGTGCTGGAACATGAAATGGAGATTCA
AGGCCTGCTTCAGTCTGTGAGCACCAGGGAGCAGGAAAGCCAAGCTGCTGCAGAGAAGTTGGTGCAAGCCTTAAT
GGAAAGAAATTCAGAATTACAGGCCCTGCGCCAATATTTAGGAGGGAGAGACTCCCTGATGTCCCAAGCACCCAT
CTCTAACCAACAAGCTGAAGTTACCCCCACTGGCCGTCTTGGAACAGACTGATCAAGGTTCAATGCAGATACC
TTCCAGAGATGATAGCACTTCATTGACTGCCAAAGAGGATGTCAGCATACCCAGATCCACATTAGGAGATTTGGA
CACAGTTGCAGGGCTGGAAAAAGAACTGAGTAATGCCAAAGAGGAACCTGAACTCATGGCTAAAAAAGAAAGAGA
AAGTCAGATGGAACCTTCTGCTCTACAGTCCATGATGGCTGTGCAGGAAGAAGAGCTGCAGGTGCAGGCTGCTGA
TATGGAGTCTCTGACCAGGAACATACAGATTAAGAAGATCTCATAAAGGACCTGCAAATGCAACTGGTTGATCC
TGAAGACATACCAGCTATGGAACGCCTGACCCAGGAAGTCTTACTTCTTCGGGAAAAAGTTGCTTCAGTAGAATC
CCAGGGTCAAGAAATTTTCAGGAAACCGAAGACAACAGTTGCTGCTGATGCTAGAAGGACTAGTAGATGAACGGAG
TCGGCTCAATGAGGCCTTACAAGCAGAGAGACAGCTCTATAGCAGTCTGGTGAAGTTCCATGCCCATCCAGAGAG
CTCTGAGAGAGACCGAACTCTGCAGGTGGAACCTGGAAGGGGCTCAGGTGTTACGCAGTCGGCTAGAAGAAGTTCT
TGGAAGAAGCTTGAGCGCTTAAACAGGCTGGAGACCCTGGCCGCCATTGGAGGTGCAGCTGCAGGGGATGACAC
CGAAGATACAAGCACTGAGTTCAGTGACAGTATTGAGGAGGAGGCTGCACACCATAGTCAACAGCAACTTGTCAA
GGTGGCTTTGGAGAAAAGTCTGGCAACTGTGGAGACCCAGAACCCTCTTTTTCCCCTCCTTCTCCGATGGGAGG
GGACAGTAACAGGTGTCTTCAGGAAGAAATGCTCCACCTGAGGGCTGAGTTCCACCAGCACTTAGAAGAGAAGAG
GAAAGCTGAGGAGGAAGTGAAGGAGCTAAAGGCTCAAATTGAGGAAGCAGGATTCTCTCAGTGTCACATCAG

1916/2825
FIGURE 1701B

GAACACCATGCTGAGCCTTTGCCTTGAGAATGCGGAGCTGAAAAGAGCAGATGGGAGAAGCAATGTCTGATGGATG
GGAGATCGAGGAAGACAAGGAGAAGGGCGAGTTGGATAAACCAGTCCCAGCCTCGTGACCCTGGGCCTCAGTCAGC
GTTTAGCCTACCAGGGTCCACCCAGCACCTGCGCTCCCAGCTGTCAACAATGCAAACAACGCTATCAAGATCTCCA
GGAGAAGCTGCTGCTATCAGAAGCCACTGTCTTTGCTCAGGCTAACGAGCTGGAGAAATACAGAGTTATGCTTAC
AGGTGAATCCTTGGTGAAGCAGGACAGCAAGCAGATCCAGGTGGACCTCCAGGACCTGGGCTATGAGACTTGTGG
CCGAAGCGAGAATGAGGCTGAACGGGAGGAAACCACCAGTCTTGAGTGTGAGGAGCACAACAGCCTCAAGGAAAT
GGTCTGATGGAGGGGCTGTGCTCTGAGCAGGGACGCCGGGGCTCAACACTGGCTAGTTCTCTGAGAGGAAGCC
CTTGAGAACCAGCTAGGGAAGCAGGAAGAGTTCCGGGTATATGGAAAGTCAGAAAACATCTTGGTCTACGAAA
GGACATCAAAGATCTGAAGGCCAGCTGCAGAATGCCAACAGGTCATTCAAACCTCAAGAGCCGGGTCCGGTC
CCTCTCAGTTACAAGTGATTATTCTGTCTAGTCTGGAAAGACCCCGGAAGCTGAGAGCTGTTGGCACCTTGGAGGG
GTCTTCACCTCATAGTGTCCCTGATGAGGATGAGGGGTGGCTGTCTGATGGCACTGGGGCTTTCTACTCTCCAGG
GCTTCAGGCCAAAAAGGACCTGGAGAGTCTCATCCAGAGAGTATCCAGCTGGAGGCCAGCTCCCCAAAAATGG
ACTAGAAGAGAAGCTGGCTGAGGAGCTGAGATCAGCCTCGTGGCCTGGGAAATATGATTCCCTGATTACAGGATCA
GGCCCGGGAAGTGTCTTACCTACGGCAAAAAATACGAGAAGGGAGAGGTATTTGTTATCTTATACCCGGCATGC
AAAAGATACAGTAAATCTTTGAGGATCTCCTAAGGAGCAATGACATTGACTACTACCTGGGACAGAGCTTCCG
GGAGCAACTCGCCAGGGAAGCCAGCTGACAGAGAGGCTCACCAGCAAACTCAGCACCAAGGATCATAAAAGTGA
GAAAGATCAAGCTGGACTTGAGCCACTGGCCCTCAGGCTCAGCAGGGAGCTGCAGGAGAAGGAGAAAGTGATTGA
AGTCTGCGAGGCCAAGCTGGATGCTCGGTCCCTCACACCCTCCAGCAGCCATGCCTTGTCTGACTCCCACCGCTC
TCCCAGCAGCACCTCTTCTGTCTGATGAAGTGGAAAGCCTGCTCTGACATGGACATAGTCAGCGAGTACACACA
CTATGAAGAGAAGAAAGCTTCTCCCAGTCACTCAGATTCCATCCATCATTGAGTCATTCTGCTGTGTTGTCTTC
TAAACCATCATCAACCAGTGCATCTCAGGGGGCTAAGGCCGAATCCAACAGCAACCCCATCAGCTTGCCAACTCC
CCAGAATACCCCCAAGGAGGCCAACCAGGCCCATTCAGGTGCCAGCACTGTTCTCTGCTTCCACAGCTACATT
GCTGAGCAACGACTTGGAAGCCGACTCTTCTACTACCTCAACTCTGCCAGCCTCACTCTCCTCCAAGGGGCAC
CATAGAAGTGGGAAGAATCCTAGAGCCTGGGTACCTGGGCAGCAGTGGCAAGTGGGATGTGATGAGGCCTCAGAA
AGGGAGTGATCTGGGGACCTATCCTCAGGCTCCTCTGTGTACCAGCTTAACTCCAACCCACAGGGGCTGACCT
GCTGGAAGAGCATCTTGGTGAATCCGGAACCTGCGCCAGCGCCTGGAGGAATCCATCTGCATCAATGACCGCCT
ACGGGAGCAACTGGAACACCGGCTGACCTCTACTGCTCGTGGAAGGGGATCCACTTCTAAGTCTACAGTCAGGG
CCTGGAGTCCATACCTCAGCTCTGCAATGAGAACAGAGTCTCAGGGAAGACAATCGAAGACTTCAGGCTCAACT
GAGTCATGTTTCCAGAGAGCACTCCCAGGAAACAGAAAGCCTGAGGGAGGCTCTGCTGTCTCTCGATCCCACCT
TCAAGAGCTGGAAGAGGAGCTGGAGCACCAGAAAGGTGGAAGGCAGCAGCTTTTGAAGACTTGAGGGAGAAGCA
GCAAGAGGTCTTGCAATTCAGGGAGGAACGTCTTCCCTCCAGGAAAACGACTCCAGACTGCAGCACAAAGCTGGT
TCTCCTGCAGCAACAGTGTGAAGAGAAACAGCAGCTCTTTGAGTCCCTCCAGTCAGAGCTACAAATCTACGAGGC
ACTTTATGGCAATTCCAAGAAGGGGCTGAAAGCTTACAGCCTGGATGCCTGTACCAAATCCCTTTGAGCAGTGA
CCTGAGCCACCTGGTGGCAGAGGTACGAGCTCTGAGAGGGCAGCTGGAGCAGAGCATTACAGGGGAACAATTGTCT
GCGACTGCAGCTGCAACAGCAGCTGGAGAGCGGTGCTGGCAAAGCCAGCCTCAGCCCCTCCTCCATTAACCAGAA
CTTCCCAGCCAGCACTGACCCTGGAAACAAGCAGCTGCTCCTCCAAGATTGAGCTGTGTCCCCTCCAGTCCGGGA
TGTTGGTATGAATTCCCCAGCTCTGGTCTTCCCCAGCTCTGCTTCTCTACTCCTGGCTCAGAAACGCCCATAAT
CAACAGAGCAAATGGCTTGGGTTTGGATACTTCTCCAGTAATGAAGACCCCTCCCAAGCTAGAGGGTGATGCTAC
TGATGGCTCCTTTGCCAATAAGCATGGCCGCCATGTGATTGGCCACATTGATGACTACAGTGCCCTAAGACAGCA
GATTGCGGAGGGCAAGCTGCTGGTCAAAAAGATAGTGTCTCTTGTGAGATCAGCGTGCAGCTTCCCTGGCCTTGA
AGCCCAAGGCACAGAGGTGCTAGGCAGCAAAGGTATTTCATGAGCTTCGGAGCAGCACCAGTGCCCTGCACCATGC
CCTAGAGGAGTCAGCTTCCCTCCTCACCATGTTCTGGAGAGCGGGCCTGCCAAGCACCCACATCCCTGTGCTGCC
TGGCAAAGTGGGAGAATCAACAGAAAGGGAACCTTCTGGAAGTGAAGCAACAAAGTATCCAAACAGGAGCGACTCCT
TCAGAGCACAACTGAGCATCTGAAGAACGCCAACCAGCAGAAGGAGAGCATGGAGCAGTTTATTGTGAGCCAGCT
AACCAGAACACATGATGTTTTAAAGAAGGCAAGGACTAACTTAGAGGTGAAATCCCTAAGGGCTCTGCCATGTAC
TCCAGCCTTGTGACCCTTGCTTCCAGGAACCATGCAAGAAGCGCAGCCACCAGAAGTCCTTAAACAGCAGGAA
AGGTGGGCCTGTCCCCCTTTTGTGAGCTACCTATCTGCTGAGGAGCATCTGGGCCTCATTCTCCAAGTCCACG
GGAGGGTCCAGAAGAGGGAGTCAGAGATGTATCCTGGTGGAGCTGGGAGAAAGGCAGAAAGCCTTTCTGACGGCT

1917/2825
FIGURE 1701C

ATGGAATACGATTAGCCAAGGTCCACTTGGCCCAGCACTAAGAAAAAGATGCGTAGTTTGCACAGAAGGTTTTGT
GATCCTGCCTCTCAACAGCCCCAGCAGCTTGGGAACTAGCAAGAGCACATTTCTTGCCTCATCAGCTGTCCTGAG
ATGGAAAACCTCAGTGAATATAGGACCCTGATTCCGATGAAAGGGGCACGTGGTCCCAATGCTGGAGCTCCTCTGG
CAGGTTCTAAAAGCACACTACTGAGCAGCGGTGCCCTGCCGGACACTGCTGGCGGGGGCTCAGTGAGCACTACTC
ACAGATCCACACCTGACCCTGTTGGGTGCGAGTCAGGCTGGGCCTTGGTCTGCACTGTAGCACCTGTGTTCTTTGA
GTTACATCATGAATGTGGTGACTTCCCAGATACCATCTCAGGCTTAACCTAGCACATCCTATTTCTTTCTTCT
ATGATATCCAAATTGGACTGACCTCACTTCAAAGTTGCTGTCCCATTTTGTACCCCTATCTTATCTCGGGGAAAT
TGCAGACTGATGGCCAGACCAACTCTGTTGAAATTCTTGCATAGAGCAAACCTGTGCTCATTTTTAAGTGGCATG
GGAGAGGCCCCAAGCCTAGTAAAGCCTAGTCTGTGTCTTCACAGTGCTGGTAGAATGTGTTTGTGTGTATAAATA
TATGATATAGATTTATATATGTTGCTAACGCCATATATTGAAGGCCAACATAACTGGTGGACAGGGTGGGTGACA
GAAAATGAAAGTCTTTTTGGTGATTGTTAAAGCAAAATGTGTATAAAGAAATAAATAGTTTTTCTTTC

1918/2825
FIGURE 1702A

TGCCATGCTGCTGCACGGACAGGATGTGATCACTGTGTCCAATGGAGGCCGAATCATGCGTTCCTGGGAGACTAA
CATCGGGGGCCTGAACTGGGAGATAACCCCTGGACAGTGGCAGTTTCCAGGCACCTTGGGCTGGTTGGCCTGCAGGA
GTCTGTAAGGTACATCGCAGTCCTGAAGAAGACTACACTTGGCCCTCCATCACCTCTCCAGTGGGCACCTCAAGTG
GGTGAACATCTCCCAGAAAGTGACAGCATCCACTACCAGATGGTGTATTCTTACGGCTCTGGGGTGGTGTGGGC
CCTCGGAGTTGTTCCCTTCAGCCATGTGAACATTGTCAAGTTTAATGTGGAAGATGGAGAGATTGTTTCAGCAGGT
TAGGGTTTCAACTCCGTGGCTGCAGCACCTGTCTGGAGCCTGTGGTGTGGTGGATGAGGCTGTCTGGTGTGTCC
TGACCCGAGCTCACGTTCCCTCCAACTTTGGCTCTGGAGACGGAATGGGAGTTGAGACAGATCCCAGTGCAGTC
TCTCGACTTAGAATTTGGAAGTGGATTCCAACCCCGGGTCTGCTACCCAGCCCAACCCAGTGGACGCTTCCCG
GGCCAGTTCTTCTGCACTTGTCCCCAAGCCACTATGCTCTGCTGCAGTACCATTATGGAACGCTGAGTTTGCT
TAAAACTTCCCACAGACTGCCCTAGTGAGCTTTGCCACCCTGGGGAGAAGACGGTGGCTGCAGTCATGGCCTG
TCGGAATGAAGTGCAGAAAAGTAGCAGTTCTGAAGATGGGTCAATGGGGAGCTTTTCGGAGAAGTCTAGTTCAAA
GGACTCTCTGGCTTGCTTCAATCAGACCTACACCATTAACTTATACCTCGTGGAGACAGGTGGCGGCTGCTGGA
CACCACGATAACATTTAGCCTGGAACAGAGCGGCACTCGGCCTGAGCGGCTGTATATCCAGGTGTTCTTGAAGAA
GGATGACTCAGTGGGCTACCGGGCTTTGGTGCAGACAGAGGATCATCTGCTACTTTTCTGTCAGCAGTTGGCAGG
GAAGGTGGTGTCTGTGGAGCCGTGAGGAGTCCCTGGCAGAAAGTGGTGTGCTAGAGATGGTGGACCTCCCCCTGAC
TGGGGCACAGGCCGAGCTGGAAGGAGAATTTGGCAAAAAGGCAGATGGCTTGCTGGGGATGTTCTGAAACGCCT
CTCGTCTCAGCTTATCTGCTGCAAGCATGGACTTCCCACCTCTGGAATAATGTTTTATGATGCTCGGAAGCCCCG
GAGTCAGATTAAGAATGAGATCAACATTGACACCCTGGCCAGAGATGAATTCAACCTCCAGAAGATGATGGTGTAT
GGTAACAGCCTCAGGCAAGCTTTTGGCATTGAGAGCAGCTCTGGCACCATCCTGTGGAACAGTATCTACCCAA
TGTCAAGCCAGACTCCTCCTTTAACTGATGGTCCAGAGAACTACTGCTCATTTCCTCCATCCCCACAGTGCAC
CCTGCTGGTGAAGGACAAGGAGTCGGAATGAGTTCTCTGTATGTCTTCAATCCATTTTTGGGAAGTGGAGTCA
GGTAGCTCCCCCAGTGTGAAGCGCCCCATCTTGCAGTCCTTGCTTCTCCAGTCATGGATCAAGACTACGCCAA
GGTGTGCTGTTGATAGATGATGAATACAAGGTCACAGCTTTTCCAGCCACTCGGAATGTCTTGCGACAGCTACA
TGAGCTTGCCCCCTCCATCTTCTTCTATTTGGTGGATGCAGAGCAGGGACGGCTGTGTGGATATCGGCTTCGAAA
GGATCTCACCCTGAGCTGAGTTGGGAGCTGACCATTCCCCCAGAAGTACAGCGGATCGTCAAGGTGAAGGGGAA
ACGCAGCAGTGAGCACGTTCAATCCAGGGCCGTGTGATGGGGGACCGCAGTGTGCTCTACAAGAGCCTGAACCC
CAACCTGTGCGCGTGGTGACAGAGAGCACAGACGCGCACCATGAGCGCACCTTTATTGGCATCTTCTCATTGA
TGGCGTCACTGGGCGTATCATTCACTCCTCTGTGCAGAAGAAAGCCAAAGGCCCTGTCCATATCGTGCATTGAGA
GAACTGGGTGGTGTACAGTACTGGAACACCAAGGCTCGGCGCAACGAGTTTACCCTACTGGAGCTCTATGAGGG
CACTGAGCAATAACAACGCCACCGCCTTCAGCTCCCTGGACCGCCCCCAGCTGCCCCAGGTCTCCAGCAGTCCTA
TATCTTCCCGTCCCTCCATCAGTGCCATGGAGGCCACCATACCCGAACGGGGCATCACCAGCCGACACCTGCTGAT
TGGACTACCTTCTGGAGCAATTCTTCCCTTCCTAAGGCTTTGCTGGATCCCCGCCGCCCGAGATCCCAACAGA
ACAAAGCAGAGAGGAGAACTTAATCCCGTATTCTCCAGATGTACAGATACACGCAGAGCGATTATCAACTATAA
CCAGACAGTTTCTCGAATGCGAGGTATCTACACAGCTCCCTCGGGTCTGGAGTCCACTTGTGTTGGTGTGGCCTA
TGGTTTGGACATTTACCAAACCTCGAGTCTACCCATCCAAGCAGTTTGACGTTCTGAAGGATGACTATGACTACGT
GTTAATCAGCAGCGTCTCTTTGGCCTGGTTTTTGGCACCATGATCACTAAGAGACTGGCACAGGTGAAGCTCCT
GAATCGGGCCTGGCGATAAAGAACAAGACTGTGCCTAAAAGTGGAGAGCCAGGGGAGTGTGGGTGAGATAAGCA
GCTACAGCTGCAGTTTGGTGGATTGGTGGAGTATGTGTGTGTGTCAGTGTCTAGCTAAGAACTGTAGGGGAAGATG
GATGACCTTCACGCAGAACTCCTTTTGGGATATACATGATGCAGAAAGGATCCTACATGGAGAGAGACAGAACTC
TCTCAGCTGACACTCTCAGAGATTCTGATGGGCTTTCTCTTGAAGTCCAAAGGCGTCTGCATTGTTTCTCTTCT
TTGCCCATCCATGAATGTTCTGTTTTGTTTTTTTTTAATAAGAATTCCGGCTGATTTTTGTGAGGCCTGTTTTAAAT
TGACTTTACTTTGCCTTTTGTGTTTTCTCAATTTTATCTAGAAATCTTTCTGACTTTTTTCCATCTCTTGCTTCAAA
GTAAGAGGGGAACTCTCCTTGCCGACTCCACCTTATAGGTACATTTGGTGTGTTTGCAGTGGGAAGAAATAGGATC
CATCCTTAGCTGAGGCTTGAGGACTGATCCAGCCTCTCATGGCTTCCCTCCAAAGTAACCTTAGGGTTGAGGGATC
TATATGTGATGTCAAACTTACTTTAAACCTCTAGTTTCGTGCTGTCAATTTATTAGGCTGGGCCACCAATCTTT
GTTTCAATTTATCAGAAGCCAAGTGCATACTAGCGTCTGTTTGTGTTGCCATTGCCTATACTTTTACCTGAGAT
GTGTGAGTTGGGGCCTTTTAAAACTACTGAATTGCTGAGCCTTGAAGACATTTCCAGGGAGAAGAGATAATCT
CTCATTTACCCACAGGCTGGTCTAATCATAACCTAGTTAAAGATGTCCTTGTTTAAAGAACCCCATTTATTTATTT

1919/2825
FIGURE 1702B

TTAGTTTTTTAATATAAAATTAACATGTGGGTCATTATATTTCTCCTTAAATGAGGAAATTTTAAATTTTATTGATC
TAACCTTTGAAGCTTTAAAAAAGGAGAAAAGAGGGTAGGGGTGGGAAACTGGCATACTGTGTGTATAGCACTGCCG
ATTGGCTAGGCCACTGTGTCTCTGCTACAAATTAAAGAAATCCTAAAAGTTTTCTTGGTCATAGAGTTGGGGAA
TGACAGAATTTTTCTTTGTTGTGAAATGTATGTACAGAGTAGACCATCTCTAGCCCTGTGGTGAAAAGAGGTACAC
TCGAATGTTTGCATAAAGCAAGTGACAAATGACACTGTTTAAGTCCTCTTTTGTGTCTTAGAAGATCATTTTGAG
GCTATTTTACATTAGAGGGGATAAAAGCAGTGAAGACATGGAGTAAGTGTATTTTATTTTAGTAAGGAAAGGTC
AGTTTAATCATATATGGGTTGGTTAGGTTATCTAAAAATTTGTCATCTTTCTATGGTCATATGCTGATGGTAGAT
TATGGCAGAGAAGGAAGAGGAAATGACAACCATTTTATTAATTGTCAGTTTGATATTGAGTGACTGAATGTCTAA
GAATCTCCAGAAAAAAACAGGCATCTATCATCTGACCCAAGGCATATTTTAACATAACCTGGGAGAAGAGAGTT
AAGTACAAGTTAAAAAAATTTCTGCCCTAGTTTTGAGAAAGCCTGGCTGGAATTCTGACTGTCTTACATACATAT
GTGCAAGGTTAGCCTGCAAGATTCTAGTTTTTATTTACCAGTGTGCCAGAATCTGAAACAAGCTACTGGGAGGGA
AGGTATTTGTCTTTTAGTAAAATTCCTGTATTTTCTAGCTGTAATCAAAGTTACCTCAAAGCAGGTGCTTTTTTTTT
TTTTTGAGACCCCTGGCTCAAAAACAAAAACAAAACTAGTTTGTTTTAGTATTCATTAATTACGTATATGAGCAC
TGGTAGTCTAGTGTGTTTCTTGTATACAGTGTCTTAAATGAGATGATGCTATTTAATTCTGTTACTTGTGTTT
TTTCAACTAATGGATCTTTTAAAGTTTTTTATTTAAATTTTTTGTGGGTACATATTAGGTACATATACTTATGGG
GTACATGAGATGTTTTTATAAAGGCTCAGCTAATGTATCTTGAATATCATGTATTCATAAAGATGACTGAAATAG
TTTCTGGAACAAAGTCTGATAGAAAAAATACTCAATTCCTAATTTAAGTGTTAGAGACTTTAATGTAAGCTATCT
AATCTGAACTAGTTTCATTATTTGTGTGTGGGTACATGTTATGTGCTCCGTAAGGCATCTTCAATTTGAAAATT
TCATAATTGTAATTTCACTGCCTTTATAAAATTGCTTTTTTTTTTGGAGGCAGGGTCTCTGTACCCAGGCTGGAGAG
CAGTGGCACAGTCATAGCTCACTGCAGCCTCGAACACCTGGGCTGAAGTGATCCTCCCTCCTTAGCCTCCCAAAG
TGCCGGGATTACAGGCATGAGCTACTGCACCTGGCCCATAAATTGTCATACTTTTAAAGAGCCTATTACACAAAG
TATCATCAGAATCATCCCAAGACTCATTTCCTGATTCCTAATTATTTAAAATTTTGCTTTTAGGCGAGGCATGGT
GGCTCAAGCCTATGGTCCCAGCACTTTGGGAGGCCAAGGCAGGCAGATCATTGAGGTCAGGAGTTTGGGACCAG
CCTGGCCAACATGGTGAAACCTGAAACCCCATCTCTACCAAAAAAATGGAAAAATTTAGCCAGGTGTGGTGGTGC
ATGCCTGTAATCCCAGCCTCCCGAGTAGCTGGGGCTCAGGCGTGCGCCACCATGCCCGGCTAATTTTTGTATATT
TATGGAATGCCAAGAGATAGTTCAATCTGCCTCTCTGGCAAGCCATGGACACCAGGTCTGACAACTCTCTTAC
TCCTTAAGACAAATGCTCACCTGATCAATATGGGGAAATAAGCTGCATGGTACCATAATTTCTATTCTAAAAGGG
AAAAGTATCTCTTTGGTATTGCTTTGGAAAACATTCTTTATAACTATCTTGCTATTTAAAAATTGACAATTATCC
TTCCATAATTAAAAACAGGTAGACAAC

1920/2825
FIGURE 1703

AMLLHGDVITVSNGGRIMRSWETNIGGLNWEITLDSGSFQALGLVGLQESVRYIAVLKKTTLALHHLSSGHLKW
VEHLPESDSIHYQMVYSYSGGVVWALGVVPF SHVNIVKFNVEDGEIVQQVRVSTPWLQHLSGACGVVDEAVLVCP
DPSSRSLQTLALETEWELRQIPLQSLDLEFGSGFQPRVLP TQPNFVDASRAQFFLHLSPSHYALLQYHYGTLSLL
KNFPQTALVSFATTGEKTVAAVMACRNEVQKSSSSEDGSMGSFSEKSSSKDSLACFNQTYTINLYLVETGRRLD
TTITFSLEQSGTRPERLYIQVFLKKDDSVGYRALVQTEDHLLFLQQLAGKVVLWSREESLAEVVCLEMVDLPLT
GAQAELEGEFGKKADGLLGMFLKRLSSQLILLQAWTSHLWKMFYDARKPRSQIKNEINIDTLARDEFNLQKMMVM
VTASGKLFGISSSGTILWKQYLPNVKPDSSF KLMVQRTTAHFPHPPQCTLLVKDKESGMSSLYVFNP IFGKWSQ
VAPPVLKRPILQSLLLPVMDQDYAKVLLLIDDEYKVTAFFPATRNVLRLHELAPSIFFYLVD AEQGRLCGYRLRK
DLTTELSWELTIPPEVQRIVKVKGKRSSEHVHSQGRVMGDRSVLYKSLNPNLLAVVTESTDAHHERTFIGIFLID
GVTGRIIHSSVQKKAKGPVHIVHSENWVVYQYWNTKARRNEFTVLELYEGTEQYNATAFSSDRPQLPQVLQQSY
IFPSSISAMEATITERGITSRHLLIGLPSGAILSLPKALLDPRRPEIPTEQSREENLIPYSPDVQIHAERFINYN
QTVSRMRGIYTAPSGLESTCLVVAYGLDIYQTRVYPSKQFDVLKDDYDYVLISSVLFGLVFATMITKRLAQVKLL
NRAWR

1921/2825
FIGURE 1704A

GGCCCATGGAGCTGCGTCACCTGCTGCGCCCCCGGCCAGGATTGGACTCGGAACCAGGCGGAGCTGAGGCTGGAA
AGGCCCCGACACGCAGGTGCTGTCATCCGCACATTATCAGGCATGGCCAGGCACCAGGGTCCTGCACGTGCTCTGC
GCTACTTTTGACCTCACGCCCAGCATGGCGGGCATCATGGTACCCCCCTGTACAGCGATGGCCAGGGCCTGGCTTCA
CCTTTTCATGCCTGGCTCTGTCTGCACCCTATGGATACAGCACCTACCCCTGCCCCCACCAGACCTCCAGCGAA
AGCAGCTGTACAGCTTCTTTACCAGCAGCGGCTCAGGGTTTGAGGCCCTTCTTCACGGCGGGCGGGACCCCTGGTGG
TGGCTGTGTGCACACGGAAGGAGTATTTGACCATGAGTTTGCCCGAAGTGTCTTTGCCGACTCTGCCTGGCACT
GCGTGGCTATCGTCCATGTGCCTGGGCGCCGGCCCTTCAGCCAGAACCTGGTCCATGTCTACAAAGACGGCCATC
TGGTCAAGACAGCACCCCTTCGCTGCCCCCTCCCTCAGTGAGCCTTTCTCCTCCTGCTGTATCGGCTCCGCTGGAT
ACCGCACAAACGACCACCACCACAGGGCTGCCCCACACCACCAGTCCCCGCCACCCTGGCCTACACTCACCCCGCCC
TCACCCGCTCCCAGTCAGTCCCAGCCTCCACAGGGCTTGGCTGGGGGTCCGGGCTGGTGGCCCCCTGCAGGAGG
GCAGCATCGACTCTACCCTCGCAGGCACCCAGGACACTCGGTGGGGCAGCCCCACATCCCTGGAGGGTGAGCTGG
GGGCTGTGGCCATCTTTACGAAGCCCTGCAGGCGACGGCTCTGAGGACCCTGTGCACCCTGGGGCCCCAATGAGA
CGGCACCCCTTCAAGCCTGAGGGGGAGCTGCATGAGCTCAGCACCAGGCTGCTCCTCCATTACTACCTCAGGCTT
GTAAGAACAACATCTGCCTGGACCTGTCCCCCAGTCATGGGCTTGATGGGCGCCTGACGGGCCACAGAGTGGAGA
CCTGGGATGTGAAGGATGTGGTGAAGTGCCTTGGGGGTATGGGTGCCCTGCTGCCCTGCTGGAGCGAGTAGCTG
CACAGCCCCAAAGAGGCTGAAGCAGGTCCAGCTGAAACGCATGACCTCGTGGGTCTGAACTGACCTCTGGTCACA
ACACCCAGGGCCTGGTTCTCCATTGGGTAAATCTTCAGAGGAACGGATGGAGAGGAACGCAGTGGCTGCTTTTC
TGCTGATGCTGCGGAACCTTCTTCAGGGTCACATGGTGAACCAAGAGAGCCTGGTGCAGTGCCAGGGGCTGCCA
TCATCGGGGCCCTCCTGCGAAAGGTCCCAAGCTGGGCCATGGACATGAACGTGCTCATGTCCGCCAGCTGCTGA
TGGAGCAGGTGGCAGCTGAGGGCAGCGGGCCCCCTCCTGTACCTACTCTACCAGCATTGCTCTTCAACTTTTACC
TCTGGACCCCTCAGTGACTTCGCCGTGCGCCTCGGTTCACATCCAGTACATGTCCAGCATAGTTGGGAGCACAGAC
AGAAGCTGCGGAAGAAGTACGGCGTCCAGTTTATCTTGATGCTCTGCGCACCCACTACAGCCCCGAGCGGGAGC
GCCCCCTGGCTGCTGACGACCTACGCACCGTGCAGACCTCCCTCCTGGGCCTGGCGAGGGAGTTCTGGTGCGBA
GTCTCTCAGCAGATGACGTGCAGGTACGCAGACCATGCTGAGCTTTTTGGCGGCCACAGGCGATGACGGTCAGA
TCCTGCGCAGACTGCAGCAGAATGAGCGGCTACCTGAGCGGAGCCGCCAGCGCCTCCGGCTGCGGGAGTGTGGTC
TCCAGGGTCTGGTTGCCTGCTTGCTGAGGGGACTGTTTCCCCCAGCTCTGCCAGGGCCTCTACAAGCTGTTC
TGGGGGCAGGATCAGGCAACACTGCTGGTGGTGGCGGCAGCAGTGGGACTCTTACTCCAGCCAGCCAGCCCCGCA
CTCCTTCGCCACTGGATGGGCCGCGGCCCTTTCTGCTGCTCCTGGCCGCCACAGCTCCAGTCTCTCCAATGTGC
TGGAGGACGGCAGCCTCCCGGAGCCCACCATAGCGGGGATGATACCTCGAACACCAGCAACCCACAGCAAACCT
CTGAGGAAGAGTTGTGCAATCTGCTCACCAACGTGCTGTTCTCGGTGACGTGGCGTGGCGTGGAAAGGCAGCGATG
AGGCTGCCTGGCGGGAGCGTGGCCAGGTTTTCTCAGTGCTCACCCAGCTGGGGGCCCTCAGCCACACTTGTGCGCC
CACCAGACTGCATCAAGCGCAGCCTCCTGGAGATGATGCTGGAGTCAGCCCTGACCGACATCAAAGAGGCCCCCG
TGGGGGTCTGGCCAGCCTCACCCAGCAAGCGCTTTGGCTGCTGCGTCTGCTGCAGGACTTCTGTGTGCTGAAG
GCCATGGTAACCAGGAACGTGTGGAGTGAGAAGCTCTTTGAAGGTGTATGCAGCCTACTTGATCGCCTGGGAGCCT
GGCCCCACCTGGCCAACGGCACAGCTGATCTCCGTGAGATGGCGCAGATTGGCCTACGGCTTGTACTTGGCTACA
TCCTGCTGGAAGACCCACAGCTGCATGCCCAGGCCTACGTGAGATTGCACATGCTGCTACAGACTGCAGTGCCAG
CCCGCCGCGAGGAGGCCTGCTATGTGCTCTCCAAGCTGGAGGCTGCACTGGGGCGGGTGTGAACACCTCTTCT
TGGAGTCAGCCACTGATGAGGCAGGGTCCCCACTTGACAGCTGCAGCAGCTGCAGCAGCTGCAGAGCGCTGCTCCT
GGCTGGTACCACTGGTGCACAGCTGCTAGACCGTGCCTATGAGCCGCTGGGGCTGCAGTGGGGACTGCCCTCCC
TGCCACCCACCAATGGCAGCCCCACCTTCTTTGAAGACTTCCAGGCTTTTTGTGCCACACCCGAATGGCGCCACT
TCATCGACAAAACAGGTACAGCCAACCATGTCCCAGTTCGAAATGGACACGTATGCTAAGAGCCACGACCTTATGT
CAGGTTTTCTGGAATGCCTGCTATGACATGCTTATGAGCAGTGGGCAGCGGCGCCAGTGGGAGCGCGCCAGAGTC
GTCGGGCCCTTCCAGGAGCTGGTGTGGAACCTGCGCAGAGGCGGGCGCGCCTGGAGGGGCTACGCTACACGGCAG
TGCTGAAGCAGCAGGCAACGCAGCACTCCATGGCCCTGCTGCACTGGGGGGCGCTGTGGCGCCAGCTCGCCAGCC
CATGTGGGGCCTGGGCGCTGAGGGACACTCCCATCCCCCGCTGGAAACTGTCCAGCGCCGAGACATATTACGCA
TGCGTCTGAAGCTGGTGGCCAACCATCACTTCGACCCTCACCTGGAAGCCAGCGCTCTCCGAGACAATCTGGGTG
AGGTTCCCCCTGACACCCACCGAGGAGGCCTCACTGCCTCTGGCAGTGACCAAAGAGGGCCAAAGTGAGCACCCAC
CCGAGTTGCTGCAGGAGGACCAGCTCGGCGAGGACGAGCTGGCTGAGCTGGAGACCCCGATGGAGGCAGCAGAAC

1922/2825
FIGURE 1704B

TGGATGAGCAGCGTGAGAAGCTGGTGCTGTCGGCCGAGTGCCAGCTGGTGACGGTAGTGGCCGTGGTCCCAGGGC
TGCTGGAGGTCACCACACAGAATGTATACTTCTACGATGGCAGCACTGAGCGCGTGGAACCGAGGAGGGCATCG
GCTATGATTTCCGGCGCCCACTGGCCCCAGCTGCGTGAGGTCCACCTGCGGCGTTTCAACCTGCGCCGTTTCAGCAC
TTGAGCTCTTCTTTATCGATCAGGCCAACTACTTCCCTCAACTTCCCATGCAAGGTGGGCACGACCCAGTCTCAT
CTCCTAGCCAGACTCCCAGACCCAGCCTGGCCCCATCCCACCCCATACCCAGGTACGGAACCGAGTGTACTCGT
GGCTCCTGCGCCTACGGCCCCCTCTCAAGGCTACCTAAGCAGCCGCTCCCCCAGGAGATGCTGCGTGCCCTCAG
GCCTTACCCAGAAATGGGTACAGCGTGAGATATCCAACCTTCGAGTACTTGATGCAACTCAACACCATTCGCGGGC
GGACCTACAATGACCTGTCTCAGTACCCTGTGTTCCCCTGGGTCTGCAGGACTACGTGTCCCCAACCCCTGGACC
TCAGCAACCCAGCCGTCTTCCGGGACCTGTCTAAGCCCATCGGTGTGGTGAACCCCAAGCATGCCAGCTCGTGA
GGGAGAAGTATGAAAGCTTTGAGGACCCAGCAGGGACCATTGACAAGTTCCACTATGGCACCCACTACTCCAATG
CAGCAGGCGTGATGCACTACCTCATCCGCGTGGAGCCCTTCACCTCCCTGCACGTCCAGCTGCAAAGTGGCCGCT
TTGACTGCTCCGACCGGCAGTTCCACTCGGTGGCGGCAGCCTGGCAGGCACGCCTGGAGAGCCCTGCCGATGTGA
AGGAGCTCATCCCGGAATTCTTCTACTTTCTGACTTCCTGGAGAACCAGAACGGTTTTGACCTGGGCTGTCTCC
AGCTGACCAACGAGAAGGTAGGCGATGTGGTGCTACCCCCGTGGGCCAGCTCTCCTGAGGACTTCATCCAGCAGC
ACCGCCAGGCTCTGGAGTGGAGTATGTGTCTGCACACCTACACGAGTGGATCGACCTCATCTTTGGCTACAAGC
AGCGGGGGCCAGCCGCCGAGGAGGCCCTCAATGTCTTCTATTACTGCACCTATGAGGGGGCTGTAGACCTGGACC
ATGTGACAGATGAGCGGGAACGGAAGGCTCTGGAGGGCATTATCAGCAACTTTGGGCAGACTCCCTGTCAGCTGC
TGAAGGAGCCACATCCAACCTCGGCTCTCAGCTGAGGAAGCAGCCCATCGCCTTGACGCCTGGACACTAACTCAC
CTAGCATCTTCCAGCACCTGGACGAACTCAAGGCATTCTTCGAGAGGTTGTGAGTGATGGTGTACCCCTGGTGC
TAGCCCTGGTCCCCCACCAGCAGCCCCACTCCTTCATCACCCAGGGTTCCCCAGACCTGTTGGTGACTGTGAGTG
CCAGTGGGCTGCTGGGCACCCACAGCTGGTTGCCCTATGACCGCAACATAAGCAACTACTTCAGCTTCAGCAAAG
ACCCACCATGGGCAGCCACAAGACGCAGCGACTGCTGAGTGGCCCGTGGGTGCCAGGCAGTGGTGTGAGTGGAC
AAGCACTGGCAGTGGCCCCGGATGGAAGCTGCTATTTCAGCGGTGGCCACTGGGATGGCAGCCTGCGGGTGA CTG
CACTACCCCGTGGCAAGCTGTTGAGCCAGCTCAGCTGCCACCTTGATGTAGTAACCTGCCTTGCACTGGACACCT
GTGGCATCTACCTCATCTCAGGCTCCCGGGACACCACGTGCATGGTGTGGCGGCTCCTGCATCAGGGTGGTCTGT
CAGTAGGCCTGGCACCAAGCCTGTGCAGGTCCCTGTATGGGCATGGGGCTGCAGTGAGCTGTGTGGCCATCAGCA
CTGAACTTGACATGGCTGTGTCTGGATCTGAGGATGGAACCTGTGATCATACACTGTACGCCGCGGACAGTTTG
TAGCGGCACTACGGCCTCTGGGTGCCACATTCCCTGGACCTATTTTCCACCTGGCATTGGGGTCCGAAGGCCAGA
TTGTGGTACAGAGCTCAGCGTGGAACGTCCTGGGGCCCAGGTCACCTACTCCTTGACCTGTATTTCAGTCAATG
GGAAGTTGCGGGCTTCACTGCCCCCTGGCAGAGCAGCCTACAGCCCTGACGGTGACAGAGGACTTTGTGTTGCTGG
GCACCGCCAGTGCGCCCTGCACATCCTCCAACATAACACACTGCTCCCGGCCGCGCCTCCCTTGCCCATGAAGG
TGGCCATCCGCAGCGTGGCCGTGACCAAGGAGCGCAGCCACGTGCTGGTGGGCCTGGAGGATGGCAAGCTCATCG
TGGTGGTCGCGGGCAGCCCTCTGAGGTGCGCAGCAGCCAGTTCGCGCGGAAGCTGTGGCGGTCTCGCGGCGCA
TCTCCCAGGTGTCTCGGGAGAGACGGAATACAACCTACTGAGGCGCGCTGAACCTGGCCAGTCCGGCTGCTCG
GGCCCCGCCCCCGGCAGGCCTGGCCCCGGGAGGCCCCGCCGAGAAGTCGGCGGGAACACCCCGGGGTGGGCAGCCC
AGGGGGGTGAGCGGGGCCACCCCTGCCAGCTCAGGGATTGGCGGGCGATGTTACCCCTCAGGGATTGGCGGGC
GGAAGTCCCGCCCCCTCGCCGGCTGAGGGGGCCGCCCTGAGGGCCAGCACTGGCGTCTGCGGCCGC

1923/2825
FIGURE 1705

NQESLVQCQGPATIGALLRKVPSWAMDMNVLMASQQLMEQVAAEGSGPLLYLLYQHLLFNHFWTLSDFAVRLGH
IQYMSSIVREHRQKLKRYGVQFILDALRTHYSPQREPLAADDLRTVQTSLLGLAREFLVRSLSADDVQVTQTM
LSFLAATGDDGQAVGALDLLLLALLHGSILVQESLAVFLLEPGNLEVLLALLVRPGSLPLLPDRVCKILRRLQQNER
LPERSRQRLRLRECGQLVACLPEGTVSPQLCQGLYKFLGADCLNLSDLLAVVQLSLQADLSVRLDICRQLFH
LIYGQPDVVRLRLARQAGWQDVLTRLYVLEAATAGSPPSSPESPTSPKPAPPKPPTESPAEPSDVFLPSEAPCPD
PDGFYHALSPFCTPFDLGLERSSSVSGSNTAGGGGSSGTLTPASQPGTPSPLDGPRPFPAAPGRHSSSLSNVLEDG
SLPEPTISGDDTSNTSNPQQTSEEEELCNLLTNVLF SVTWRGVEGSDEAAWRERGOVFSVLTQLGASATLVRPPDC
IKRSLLEMMLESALTDIKEAPVGVLASLTQQALWLLRLLQDFLCAEGHGNQELWSEKLFEGVCSLLDRLGAWPHL
ANGTADLREMAQIGLRLVLGYILLEDPLHAQAYVRLHMLLQTAVPARREEACYVLSKLEAALGRVLNTSSLESA
TDEAGSPLAAAAAAAAAERCSWLVLVRLTLLDRAYEPLGLQWGLPSLPPTNGSPTFFEDFQAFCATPEWRHFIDK
QVQPTMSQFEMDTYAKSHDLMSGFWNACYDMLMSSGQRRQWERAQSRRAFQELVLEPAQRRARLEGLRYTAVLKQ
QATQHSMALLHWGALWRQLASPCGAWALRDTPIPRWKLSSAETYSRMRLKLVNHHFDPHLEASALRDNLGEVPL
TPTEEASLPLAVTKEAKVSTPPELLQEDQLGEDELAELETPMEAAELDEQREKLVLSAECQLVTVVAVVPGLLEV
TTQNVYFYDGS TERVETEEGIGYDFRRPLAQLREVHLRRFNLRRSALELFFIDQANYFLNFPCKVGTTPVSSPSQ
TPRPQPGPIPPHTQVRNQVYSWLLRLRPPSQGYLSSRSPQEMLRASGLTQKWVQREISNFEYLMQLNTIAGR
TYNDLSQYPVV

1924/2825
FIGURE 1706

CAAACATTGAGGAAAGCCAGGCAGTAGAGGCCGCTATGGCGAACGTTCCGTGGGCAGAGGTCTGCGAGAAATTCC
AGGCGGGCGCTCGCTCTGTGCGGGTGGAAGTGCATAAAAAATCCGGAGAAGGAACCATACAAGTCCAAATACAGCG
CCCGGGCGCTACTGGAAGAGGTCAAGGCGCTGCTCGGCCCTGCGCCTGAGGACGAGGATGAGCGGCCTGAGGCCG
AGGACAGCCCCGGGTGCCGGTGACCACGCCCTGGGGCTGCCGGCTGAGGTGGTGGAGCCGAGGGGCCCCGTGCCCC
AGCGAGCGGTGAGGCTGGCAGTCATCGAGTTCCACCTCGGGGTGAACCACATCGACACGGAGGAGCTGTGCGCGG
GGGAGGAGCACCTGGTGAATGCCTGCGGCTGCTGCGCAGGTACCGGCTCTCGCACGACTGCATCTCTCTCTGCA
TCCAGGCGCAGAATAACCTGGGTATCTTGTGGTCTGAAAGAGAAGAAATTGAACTGCACAGGCTTACCTAGAGT
CATCAGAAGCACTATATAATCAGTATATGAAAGAGGTGGGAGTCCTCCTTTGATCCTACTGAGCGTTTTCTTC
CTGAAGAAGAGAACTTACTGAACAAGAGAGATCAAAAAGATTTGAAAAGGTTTATACTCATAACCTATATTACC
TAGCTCAAGTCTACCAGCATCTGGAATGTTTGAGAAGGCTGCTCACTATTGCCATAGTACACTAAAACGCCAGC
TTGAGCACAATGCCTACCATCCTATAGAGTGGGCTATCAATGCTGCTACCTTGTACAGTTTTACATCAATAAGC
TATGCTTTTATGGAGGCCAGGCACTGTTTATCAGCTGCTAATGTCATTTTTTGGTCAAAGTGGAAAGATCTCAGCCA
CAGAAGACACTCCTGAAGCTGAAGGAGAAGTGCCAGAGCTTTATCATCAAAGAAAGGGGAAATAGCAAGGTGCT
GGATCAAATACTGTTTGAAGTCTCATGCAGAATGCCCAACTCTCCATGCAGGACAACATAGGAGAGCTTGATCTTG
ATAAACAGTCTGAAGTCTAGAGCTTTAAGGAAAAAAGAACTAGATGAGGAGGAAAGCATTTCGAAAAAAGCTGTGC
AGTTTGAACCGGTGAAGTGTGTGATGCCATCTCTGCAGTAGAAGAGAAAGTGAAGTACTTGAAGACCTTTAGATT
TTGAAGAAGCCAGAGAAGCTTTTCTTATTGGGTGAGCACTATGTCTTTGAGGCAAAAGAGTTCTTTTCAAGATTGATG
GTTATGTCACTGACCATATTGAAGTTGTCCAAGACCACAGTGCTCTGTTTGAAGTGCTTGCATTCTTTGAAAGTGA
ACATGGAGAGACGGTGCAAGATGCATAAACGCAGAATAGCCATGCTAGAGCCCCTAACTGTAGACCTGAATCCAC
AGTATTATCTGTTGGTCAACAGACAGATCCAGTTTGAAAATTGCACATGCTTACTATGATATGATGGATTGGAAGG
TTGCCATTGCTGACAGGCTAAGGGATCCTGATTCACACATTGTAAAAAATAAATAATCTTAATAAGTCAGCAC
TGAAGTACTACCAGCTCTTCTTAGACTCCCTGAGAGACCCAAATAAAGTATTCCCTGAGCATATAGGGGAAGATG
TTCTTCGCCCCTGCCATGTTAGCTAAGTTTCGAGTTGCCCGTCTCTATGGCAAATCATTACTGCAGATCCCAAGA
AAGAGCTGGAAAATTTGGCAACATCATTGGAACATTACAAATTTATTGTTGATTACTGTGAAAAGCATCCTGAGG
CCGCCCAGGAAATAGAAGTTGAGCTAGAAGTCTAGTAAAGAGATGGTTAGTCTTCTCCCAACAAAAATGGAGAGAT
TCAGAACCAAGATGGCCCTGACTTAATCCTTGTTTTTAAAGAAAGGAAATGTGCAATATTGAAGTGATCTTTTTC
CCTAGTCAGACAGGCCCAATTCCATTGTGATGTTTACCTTTATAGCCAGGTGAGTGCAGTTTGAAGTGTGATAC
AGTCAACTGAGTGTGTTGCTAGGATCCTAAGGAACATAAAGTTAATTAAAACTTACACCTAATTATGTAAATTGC
CTTGTTAAAGACATGTGATTTGTATTTTAGATGCTTGTTTCCTATTAAAAATACAGACATTTCTACCCCTCAGTTTC
TAAATGTAGACTATTTGTTGGCTAGTACTTGATAGATTCTTGTAAGAAAAATGCTGGGTAAATGTACCTGGTAA
CAAGCCTGTTAATATATTAAGATTGAAAAAGTAACTTCTATAGTTACTCCTTCTAAAATATTTGACTTCTACAT
TCCCCCACCCAAAATCTTCCCTTTTGAATACTAAAACTAAGTTATGTTATTATAAAGTGTAAGTGGTTT
GTCTTAATTATAGGAGAAAAAGGCCTTGTTAGAAATAAAATAAAGTACTTATTTCACTAATG

1925/2825
FIGURE 1707A

CCAGTTTCCACTTTTGGAGAAGCAGGATGTTGAATGTGAGTAATGACACAACAGGCCTATAAAATGCGGACTAACC
CTCGGATGACTCATCCGGTACAATGCAGCTACTATTTGTCAAGGAGACTGAACTCATACTATGGGGGAAACCACT
TCTCAGGCAGCCAGCTGGTTCTCAGGTCAGCAAGAGACGATCCATTTTTATCGGAAGCTTTATAGTAGCAATAAT
GCTAATACCCAGCACTCGGGCTCCACAATGTAGAGGAAATGGCATCGCCTGGCAGTGACAGCTATATTGTGCGTG
TCAAGGCTGTGGTTATGACCAGAGATGACTCCAGCGGGGGATGGTTCCACAGGAAGGAGGCGGGATCAGTCGCG
TCGGGGTCTGTAAGGTCATGCACCCGAAGGCAATGGACGAAGCGGCTTTCTCATCCATGGTGAACGACAGAAAG
ACAAACTGGTGGTATTGGAATGCTATGTAAGAAAGGACTTGGTCTACACCAAAGCCAATCCAACGTTTCATCACT
GGAAGGTCGATAATAGGAAGTTTGGACTTACTTTCCAAAGCCCTGCTGATGCCCGAGCCTTTGACAGGGGAGTAA
GGAAAGCAATCGAAGACCTTATAGAAGGTTCAACAACGTCATCTCCACCATCCATAATGAAGCTGAGCTTGGCG
ATGATGACGTTTTTACAACAGCTACAGACAGTTCTTCTAATTCTCTCAGAAGAGAGAGCAACCTACTCGGACAA
TCTCCTCTCCACATCCTGTGAGCACCGGAGGATTTATACCCTGGGCCACCTCCACGACTCATACCCACAGACC
ACTATCACCTCGATCAGCCGATGCCAAGGCCCTACCGCCAGGTGAGCTTCCGGACGACGACGAGGAGATCGTGC
GCATCAACCCCGGGAGAAGATCTGGATGACGGGGTACGAGGATTACCGGCACGACCCGTCAGGGGCAAGTACC
CGGACCCCTCGGAGGACGCGGACTCCTCCTACGTGCGCTTCGCCAAGGGCGAGGTCCCCAAGCATGACTACAAC
ACCCCTACGTGGACTCCTCAGACTTTGGCCTAGGCGAGGACCCCAAAGGCCGCGGGGGCAGCGTGATCAAGACGC
AGCCCTCCCGGGGCAAGTCGCGGCGGGCGGAAGGAGGACGGAGAGCGCTCGCGGTGCGTGACTGCAGGGACATGT
TCAACCACGAGGAGAACCGCGGGGCCACTGCCAGGACGCGCCCGACTCCGTGAGAAGTTGCATCCGCCGGGTGA
GCTGCATGTGGTGC GCGGACAGCATGCTCTATCACTGTATGTGCGACCCCGAGGGAGACTATACAGACCCCTTGCT
CGTGCGATACTAGCGACGAGAAGTTTTGCCTCCGGTGGAATGGCTCTTATTGCCTTGCTTTTCTTGCCCCCTGTA
TGTGCTGTTACCTGCCCTTCGGGCTGCTACCACTGCGGAGTGATGTGCAGGTGCTGTGGCGGGAAGCACAAAG
CGGCCGCGTGACTCAGTTTCCCTCCCTTCTCCCTCCATCCGCAGCCACAGGGGAAGTCTGCTCTTACATACTCTC
ATCTTCTCCCCGCTCCCTTCCACTCCAAGGAGCGAGGAGGGCAAGCGGCCTCCAGCTCCCTGGTACCTCGAGG
CACCATTCCAGCCAGGGACGCTGCCGGGTAGACTCTCCACTCCCCCTGCCGCCACACTGCAGCAGCCACATCCA
TACACACACGCTCGCACAGTGTTCTGAGGAAGGAACCTTCGCCACAGACTCCTGTACTATTAACAATCTGTAAAC
AAGCTAACTGTCTCATCCATGTGTTGATTTCTGTTTCTCTCCCGCCTCTTCCAGTTCAAAGGAGTCTGCA
ATTGGAAGTGTGATTTTTCGGTGGGTTTTGTAGTTGATTTTCCAAGAGCGTCGAAGACTCTCTTTCTCTGGTT
CACCTTGCCCTGTCGCTAGCAAGCATCTGGTTTCAGCGGAAATGGGATGTGAGAATGATGAAACCCGACAGAAGTAT
CTCAGCCTGCAGTCAGTTATTATGTATAGGAGGTGAGCTAGTTAACAAACTTGTACCACAAAACAATATCGCTTT
AACTTTTCTAAAGCCAAATTTCCCATGTAAGCTGCAGTTTCTATCTTTAGCCCATCATATTTTCTGCCCCCA
AAATCTGTTGAAATGATTCAGTGAAGCAAAACATTACCCGTAATAGACTGAGAATTGAGCCTTAACTTCAGATT
AACTTGTGAGAATCAGGAAAATTCCTTCAACTGCATTGCATCCTCTTGGACCAGGGCTAGAATGGGGATTTTCAAG
TTTCTATGAGCCTCCCCATTACCCCTAAAGTAGAACATTTTTTAAATTGTGTTGCCACCACTTCTAAAAATTTAG
CAATATTAGAATAGGATACTAGTGAAGTAAGAAATTTTGCTTGTGTTTGGCAAACCAATAGTTTCTCAAACA
CAAATCAGTGTTCCACGAACAAGTTCAGTTGAGAAACACTAAGGTTATGGTGAATAAAACCATAGGGAGCTTC
TTCCCCCAACCCCTGGCTATTTTATATTAATGGGGAGAGGGGATTTTAAATGTCATAAATTTGAAGAGTGGTG
GGTTGCATTTTCTTCATGGGTTTATGTTTTCGTTTTCATTTTGGACTCAATTTACATACCAAATTCCTCATTTA
TACTTGGGGAAAAACAAGGCCATATGTAACCCCTTCCAATGCCTAAGTGTCTTTCTCCTGCAACTCCAAACC
CAGACTCGCCACTTTGGGTGCACAGGTGGTTAGGTCAGCCAAGTGGTTCTGCCTGTGCGCTTGCCACGGAGGAGG
CTTCTAATTAGCTGGAAAAGAGTATTTTTCTAATACGTTGCAAGGATTAGCCAAATCTTCTATTGAAGAAAGAA
GAAAAGTGAAGAGTGGTTACCTATACCTAGCATAGTACAATCAGAACCTCGTGGAGACCACCGGGGACAGGCTTG
CGGACGCGGGCTGTTCTTCCCGCCACGATCTTCTGTGGTAGCGGCCAGCAGAAGACATGGCCTGCTCCCCACTC
CCTTTCCCCACTCCTTCTTTATTGACACACAGGACACCAAGTCTTCAAGGAAAGGGACTTTTTTCCAGTCTGCCAAT
CATATTGGGAAAGTGCTAGCTGTGCTCACCTTCATGGGGCTGTTTCCAGCTCGTCCACAAGCTCATCGATTTTCT
TTAGTAGATTACCGGTGTAAATACCCAGTGTGCTTATGAGTCAGTTAGTAGACGTCTTCATTTCATTGGAGTAACT
GGTTTAGGCTTTCCAGTTTGAAAAGGAGCAGAGAGCTGTCCATCTGGATTGATGGAAGAAAAGAGAACCTCATC
CATGCCTGGAGAACATCTAGAAAACCTTCAGCCAGCCTCCAGTGTGTCGAGAGACCACCTTCCCCGACCCGGA
GGCACTTCCCTGGGGTCTTTCTCTAGGGTCTCTTCTCTACAAAGCACAACTAATGTTTCTTCTTAGACCTC
AGTTCAAGTGCCCTATTTATTTCAATAAGAACGCACATATCCAGCTGTTTTTGTGTTGTCACCTCTATTTAGT

1926/2825
FIGURE 1707B

TGTTACCTGTTTCTCTCTTCTTTACCCCTTGTCCTTTTCCACCCTTTTAAGAGTTACGCTAGCAGATCTTACTC
CACGTATACTTTTTGGTTTGTGAAGGCATCGGTTAAGGGCACAAAGACAGCCATGGGGACATTTATGTAAATACG
TCTCTAATTGCCACACTGCAGCTGAACAGTGTGTAGTATTTTCCAGTCAGCTTTGCCATACTGACGTCAATCAT
TTGAGAGAAATTATTCAGATTTTATTTTGTATCTGTGGTAACAAAACATTAACCAAAAGATTTTCTGTCCAGAA
GCCTCCCCGACCCCCCAAGCTATTTGCTCACATTAACAAATTAAAGTGCCTGAAGCATAATTCATTCTTTACCTG
TATACTAAAAACCCTGTTGTATTGATTTTTTTATAATAAGCCTTTTTACCTCTGTGTAAAAAATATATATAACAAG
TGTATGATGTACATTTTAGTTCTTAACTTTTTTTTATGGTTTCTAATATGTATGACCAATGTAGCCATTGCTTTA
AAATGTACCGTGTAATATAAACACATCCTATCAGAAAAGAAAAAATCNAGAACGAA

1927/2825
FIGURE 1708

MASPGSDSYIVRVKAVVMTRDDSSGGWFPQEGGGISRVGVCKVMHPEGNGRSGFLIHGERQKDKLVVLECYVRKD
LVYTKANPTFHHWKVDNRKFGLTFQSPADARAFDRGVRKAIEDLIEGSTTSSSTIHNEAELGDDDVFTTATDSSS
NSSQKREQPTRTISSPTISCEHRRITYTLGHLHDSYPTDHYHLDQPMRPYRQVSFPDDDEEIVRINPREKIWMGY
EDYRHAPVRGKYPDPSEDADSSYVRFAGEVPKHDYNYPYVDSSDFGLGEDPKGRGGSVIKTQPSRGKSRRRKED
GERSRCVYCRDMFNHEENRRGHCQDAPDSVRTCIRRVSCMWCADSMLYHCMSDPEGDYTDPCSCDTSDEKFCLRW
MALIALSF LAPCMCCYLPLRACYHCGVMCRCCGGKHAAA

1928/2825
FIGURE 1709

GGGGGTATTTCTGAAAGATGCTAATCTATTTGCCAACTTGGTCTTGAATGTACTGGGGGCTTCAAGGTATGGG
TATATTTTTCTTGTGTCTTGCAGTTAGCCCCATGTCTTATGTGTGTCTGAAAAATAAGAGCCTGCCCAAGA
CTTTGGGCCTCTTGACAGAATTAACCACTTTTATACATCTGAGTTCTCTTGGTAAGTTCTTTAGCAGTGTTCAAA
GTCTACTAGCTCGCATTAGTTTCTGTTGCTGCCAACAGATCTGAACTAATGCTAACAGATCCCCCTGAGGGATTCT
TTGATGGGCTGAGCAGCTGGCTGGAGCTAGTACTGACTGACATTCATTGTGATGAGGGCAGCTTTCTGGTACAGG
ATTCTAAGCTCTATGTTTTCTATACATTTTCATCTGTACTTGCACCTCACTTTACACAAGAGGAAACTATGCAAA
GTTAGCTGGATCGCTCAAGGTCACCTAGGTGAGTTGGCAAGTCCATGCTTCCCCTCAGCTCCTCAGGTCAGCAA
GTCTACTTCTCTGCCTATTTTGTATACTCTCTTTAATATGTGCCTAGCTTTGGAAAGTCTAGAATGGGTCCCTGG
TGCCTTTTTACTTTGAAGAAATCAGTTTCTGCCTCTTTTTGGAAAAGAAAACAAAGTGAATTGTTTTTTACTGG
AAAGTTACCCAATAGCATGAGGTGAACAGGACGTAGTTAGGCCTTCTGTAAACAGAAAATCATATCAAAACACT
ATCTTCCCCTCTGTTTCTCAATGCCTGCTACTTCTTGTAGATATTTCAATTCAGGAGAGCAGCAGTTAAACCCGT
GGATTTTGTAGTTAGGAACCTGGGTTCAAACCCTCTTCCACTAATTGGCTATGTCTCTGGACAAGTTTTTTTTT
TTTTTTTTTTTTAAACCTTTCTGAACTTTCACTTTCTATGTCTACCTCAAAGAATTGTTGTGAGGCTTGAGATAA
TGCATTTGTAAAGGGTCTGCCAGATAGGAAGATGCTAGTTATGGATTTACAAGGTTGTTAAGGCTGTAAGAGTCT
AAAACCTACAGTGAATCACAATGCATTTACCCCCACTGACTTGGACATAAGTGAAAAGTCCAGAGTCTCTTT
TTCAAATTACTTACAGGTTATTCAATATAAAATTTTTGTAATGGATAATCTTATTTATCTAAACTAAAGCTTCCT
GTTTATACACACTCCTGTTATTCTGGGATAAGATAAATGACCACAGCACCTTAATTTCTAGGTGGGTGCCTGTGA
TGGTTTATTGTAGGTAAGGACATTTTCTCTTTTTTTCAGCAGCTGTGTAGGTCCAGAGCCTCTGGGAGAGGAGGGG
GTAGCATGCACCCAGCAGGGGACTGAACTGGGAACTCAAGGTTCTTTTTACTGTGGGGTAGTGAGCTGCCTTTC
TGTGATCGGTTTCCCTAGGGATGTTGCTGTTCCCTCCTTGCTATTTCGCAGCTACATACAACGTGGCCAACCCCA
GTAGGCTGATCCTATATATGATCAGTGCTGGTGCTGACTCTCAATAGCCCCACCCAAGCTGGCTATAGGTTTACA
GATACATTAATTAGGCAACCTAAAATATTGATGCTGGTGTTGGTGTGACATAATGCTATGGCCAGAAGTGAAGT
TAGAGTTATAATTCATGTATTAGGGTTCTCCAGAGGGACAGAATTAGTAGGATATATGTATATATGAAAGGGAGG
TTATTAGGGAGAACTGGCTCCACAGTTAGAAGGCGAAGTCGCACAATAGGCCGTCTGCAAGCTGGGTTAGAGAG
AAGCCAGTAGTGGCTCAGCCTGAGTTCAAAAACCTCAAACTGGGGAAGCTGACAGTGCAGCCAGCCTTCAGTCT
GTGGCCAAAGGCCCAAGAGCCCCCTGGCAACCAACCCACTGGTGCAAGTCCCTAGATTCCAAAGGCTGAAGATCCTG
GAGTCTGATGTCCAAGAGCAGGAAGAGTGGAAGAAAGCCAGAAGACTCAGCAAACAAGGTAGACAGAGTCTACCA
CCACAGTGGCCATACCAAAGAGGCTACCGATTCTTCTCTGCTACCTGGATCCCTGAAGTTGCCCTGGTCTCTGCA
CCTTCTAAACCTAGTTCTTAAGAGCTTTCCATTACATGAGCTGTCTCAAAGCCCTCCAATAAATTCTCAGTGTA
GCTTCAAAAAAAAAAAAAAAAAAAAAA

1929/2825
FIGURE 1710

MLLFPSLLFAATYNVANPSRLILYMISAGADSQ

1930/2825
FIGURE 1711A

ATGTGATGA

1931/2825
FIGURE 1712

PQRSAGCSGTAGCAAGDAPAGAMAPAMQPAEIQFAQRLASSEKGIRDRAVKKLRQYISVKTQRETGGFSQEELLQ
EELANTIAQLVHAVNNSAAQHLEFIQTFWQTMNREWKGIDRLRLDKYYMLIRLVLRQSFEVLKRNGWEESRIKVFL
DVLMEVLCPESSQSPNGVRHFHFDIYLDELSKVGGKELLADQNLKFIDPFCKIAAKTKDHTLVQTIARGVFEAIV
DQSPFVPEETMEEQKTKVGDGDLSAEEIPENEVSLRRAVSKKKTALGKNHSRKDGLSDERGRDDCGTFEDTGPLL
QFDYKAVADRLLLEMTSRKNTPHFNRKRLSKLIKKFQDLSEGSSISQLSFAEDISADEDDQILSQGKHKKKGNKLL
EKTNLEKEKGSRVFCVEEEDSESSLQKRRRKKKKKHHLQPENPGPGAAPSLEQNRGREPEASGPKALKARVAEP
GAEATSSTGEESGSEHPPAVPMHNKRKRPRKKS PRAHREMLES AVLPPEDMSQSGPSGSHFQGPGRGPTGGAQLL
KRKRKLGVVPVNGSGLSTPAWPPLQQEGPPTGPAEGANSHTTLPQRRRLQKKKAGPGSLELCGLPSQKTASLKKR
KKMRVMSNLVEHNGVLESEAGQPQALGSSGTCSSLKKQLRAESDFVKFDTPFLPKPLFFRAKSS TATHPPGPA
VQLNKTPSSSKKVTFLNLRNMTAEFKKTDK SILVSPTGPSRVAFDPEQKPLHGVLKTPTSSPASSPLVAKKPLTT
TPRRRPRAMDFF

1932/2825
FIGURE 1713A

GTGCGCCAGCAACCGAGCGGGGCCCCGGCCCCGAGCGGGGCTGGGGGTGCGACGCCGAGGGCGGGGGAGAGCGCGCC
GCTGCTCCCGGACCGGGCCGCGCACGCCGCTCAGGAACCATCACTGTTGCTGGAGGCACCTGACAAATCCTAGC
GAATTTTTGGAGCATCTCCACCCAGGAACCTCGCCATCCAGAAGTGTGCTTCCCGCACAGCTGCAGCCATGGGGT
CTGAGGACCACGGCGCCCGAGAACCCAGCTGTAAAATCATGACGTTTCGCCCAACCATGGAAGAATTTAAAGACT
TCAACAAATACGTGGCCTACATAGAGTCGCAGGGAGCCCCACCGGGCGGGCCTGGCCAAGATCATCCCCCGAAGG
AGTGGAAGCCGCGGCAGACGTATGATGACATCGACGACGTGGTGATCCCGGCGCCCATCCAGCAGGTGGTGACGG
GCCAGTCGGGCCTCTTCACGCAGTACAATATCCAGAAGAAGGCCATGACAGTGGGCGAGTACCGCCGCCTGGCCA
ACAGCGAGAAGTACTGTACCCCGCGGCACCAGGACTTTGACGACCTTGAACGCAAATACTGGAAGAACCTCACCT
TTGTCTCCCCGATCTACGGGGCTGACATCAGCGGCTCTTTGTATGATGACGACGTGGCCCAGTGGAACATCGGGA
GCCTCCGGACCATCCTGGACATGGTGGAGCGCGAGTGCGGCACCATCATCGAGGGCGTGAACACGCCCTACCTGT
ACTTCGGCATGTGGAAGACCACCTTCGCCTGGCACACCGAGGACATGGACCTGTACAGCATCAACTACCTGCACT
TTGGGGAGCCTAAGTCCTGGTACGCCATCCCACCAGAGCACGGCAAGCGCCTGGAGCGGCTGGCCATCGGCTTCT
TCCCCGGGAGCTCGCAGGGCTGCGACGCCTTCCTGCGGCATAAGATGACCCTCATCTCGCCCATCATCCTGAAGA
AGTACGGGATCCCCCTCAGCCGATCAGCAGGAGGCCGGGGAATTCATGATCACATTTCCCTACGGCTACCACG
CCGGCTTCAATCACGGGTTCAACTGCGCAGAATCTACCAACTTCGCCACCCTGCGGTGGATTGACTACGGCAAAG
TGGCCACTCAGTGCACGTGCCGAAGGACATGGTCAAGATCTCCATGGACGTGTTGCTGCGCATCCTGCAGCCCCG
AGCGCTACGAGCTGTGGAAGCAGGGCAAGGACCTCACGGTGCTGGACCACACGCGGCCACGGCGCTCACCAGCC
CCGAGCTGAGCTCCTGGAGTGCCTCCCGGGCCTCGCTGAAGGCCAAGCTCCTCCGCAGGTCTCACCGGAAACGGA
GCCAGCCCCAAGAAGCCGAAGCCCGAAGACCCCAAGTTCCCTGGGGAGGGTACGGCTGGGGCAGCGCTCCTAGAGG
AGGCTGGGGGCGAGCTGAAGGAGGAGGCTGGGCCGGAGGTTGACCCCGAGGAGGAGGAGGAGGAGCCGAGCCAC
TGCCACACGGCCGGGAGGCCGAGGGCGCAGAAGAGGACGGGAGGGGCAAGCTGCGGCCAACCAAGGCCAAGAGCG
AGCGGAAGAAGAAGAGCTTCGGCCTGCTGCCCCACAGCTGCCGCCCCGCTGCTCACTTCCCCTCAGAGGAGG
CGCTGTGGCTGCCATCCCCACTGGAGCCCCCGGTGCTGGGCCAGGCCCTGCAGCCATGGAGGAGAGCCCCCTGC
CGGCACCCCTTAATGTCGTGCCCCCTGAGGTGCCAGTGAGGAGCTAGAGGCCAAGCCTCGGCCCATCATCCCCA
TGCTGTACGTGGTGCCGCGGGCCGGGCAAGGCAGCCTTCAACCAGGAGCACGTGTCCTGCCAGCAGGCCTTTGAGC
ACTTTGCCCAGAAGGGTCCGACCTGGAAGGAACCAAGTTTCCCCCATGGAGCTGACGGGGCCAGAGGACGGTGACG
CCAGCAGTGGGGCAGGTGCGATGGAGACCAAAGCCCCGGGCCGAGAGGGGCAGGCACCGTCCACATTTTCAAAT
TGAAGATGGAGATCAAGAAGAGCCGGCGCCATCCCCCTGGGCCGGCCGCCACCCGGTCCCCACTGTGCGGTGGTGA
AGCAGGAGGCCTCAAGTGACGAGGAGGCATCCCCCTTCTCCGGGGAGGAAGATGTGAGTGACCCGGACGCCTTGA
GGCCGCTGCTGTCTCTGCAGTGAAGAACAGGGCGGCCAGCTTCCAGGCCGAGAGGAAGTTCAACGCAGCGGCTG
CGCGCACGGAGCCCTACTGCGCCATCTGCACGCTCTTCTACCCCTACTGCCAGGCCCTACAGACTGAGAAGGAGG
CACCCATAGCCTCCCTCGGAGAGGGCTGCCCGGCCACATTACCCTCCAAAAGCCGTGAGAAGACCCGACCGCTCA
TCCCTGAGATGTGCTTACCTCTGGCGGTGAGAACACGGAGCCGCTGCCTGCCAACTCCTACATCGGCGACGACG
GGACCAGCCCCCTGATCGCCTGCGGCAAGTGCTGCCTGCAGGTCCATGCCAGTTGCTATGGCATCCGTCCCGAGC
TGGTCAATGAAGGCTGGACGTGTTCCCGGTGCGCGGCCACGCCTGGACTGCGGAGTGCTGCCTGTGCAACCTGC
GAGGAGGTGCGCTGCAGATGACCACCGATAGGAGGTGGATCCACGTGATCTGTGCCATCGCAGTCCCCGAGGCGC
GCTTCTGAACGTGATTGAGCGCCACCCTGTGGACATCAGCGCCATCCCCGAGCAGCGGTGGAAGCTGAAATGCG
TGTAAGTCCGGAAGCGGATGAAGAAGGTGTCAGGTGCCTGTATCCAGTGCTCCTACGAGCACTGCTCCACGTCTT
TCCACGTGACCTGCGCCACGCGCAGGCGTGCTCATGGAGCCGGACGACTGGCCCTATGTGGTCTCCATCACCT
GCCTCAAGCACAAGTCGGGGGGTACGCTGTCCAACCTCCTGAGGGCCGTGTCCCTAGGCCAGGTGGTCATCACCA
AGAACC GCAACGGGCTGTACTACCGCTGTGCGCTCATCGGTGCCGCCTCGCAGACCTGCTACGAAGTGAACCTTCG
ACGATGGCTCCTACAGCGACAACCTGTACCCTGAGAGCATCACGAGTAGGGACTGTGTCCAGCTGGGACCCCCCTT
CCGAGGGGGAGCTGGTGGAGCTCCGGTGGACTGACGGCAACCTCTACAAGGCCAAGTTTCATCTCCTCCGTACCA
GCCACATCTACCAGGTGGAGTTTGAGGACGGGTCCCAGCTGACGGTGAAGCGTGGGGACATCTTACCCTGGAGG
AGGAGCTGCCCAAGAGGGTCCGCTCTCGGCTGTCACTGAGCACGGGGGCACCGCAGGAGCCCGCCTTCTCGGGG
AGGAGGCCAAGGCCGCAAGCGCCCGCTGTGGGCACCCGCTTGCCACGGAGGACTCCGGGCGGAGCCAGGACT
ACGTGGCCTTCTGTGGAGAGCCTCCTGCAGGTGCAGGGCCGGCCGAGCCCCCTTCTAGGACAGCTGGCCGCTCA
GGCGACCCCTCAGCCCGGCGGGGAGGCCATGGCATGCCCCGGGCGTTGCTGTGTAATTCTGTCTCTGCTGTC

1933/2825
FIGURE 1713B

CCCGACCCCCGAGAGGCCACCTCCAAGCCGCGGGTGCCCCCTAGGGCGACAGGAGCCAGCGGGACGCCGCACGCG
GCCCCAGACTCAGGGAGCAGGGCCAGGCGGGCTCGGGGGCCGGCCAGGGGAGCACCCCACTCAACTACTCAGAAT
TTTAAACCATGTAAGCTCTCTTCTTCTCGAAAAGGTGCTACTGCAATGCCCTACTGAGCAACCTTTGAGATTGTC
ACTTCTGTACATAAACCACCTTTGTGAGGCTCTTTCTATAAATACATATTGTTTAAAAAAAAGCAAGAAAAAAG
GAAAACAAAGGAAAAATATCCCCAAAGTTGTTTTCTAGATTTGTGGCTTTAAGAAAAAACAAAACAAAACAAACAC
ATTGTTTTTCTCAGAACCAGGATTCTCTGAGAGGTGAGAGCATCTCGCTGTTTTTTTTGTTGTTGTTTTAAATAT
TATGATTTGGCTACAGACCAGGCAGGGAAAGAGACCCGGTAATTGGAGGGTGAGCCTCGGGGGGGGGGCAGGACG
CCCCGGTTTCGGCACAGCCCGGTCACTCACGGCCTCGCTCTCGCCTCACCCCGGCTCCTGGGCTTTGATGGTCTG
GTGCCAGTGCCTGTGCCCACTCTGTGCCTGCTGGGAGGAGGCCAGGCTCTCTGGTGGCCGCCCTGTGCACCTG
GCCAGGGGAAGCCCGGGGGTCTGGGGCCTCCCTCCGTCTGCGCCACCTTTGCAGAATAAACTCTCTCCTGGGGT
TTGTCTATCTTTGTTTCTCTCACCCGAGAGAAACGCAGGTGTTCCAGAGGCTTCCTTGACAGACAAAGCACCCCTG
CACCTCCCATGGCTCAGGATGAGGGAGGCCCCAGGCCCTTCTGGTTGGTAGTGAGTGTTGGACAGCTTCCCAGCT
CTTCGGGTACAACCCTGAGCAGGTGCGGGGACACAGGGCCGAGGCAGGCCTTCGGGGCCCCTTTCGCCTGCTTCC
GGGCAGGGACGAGGCCTGGTGTCTCGCTCCACCCACCCACGCTGCTGTACCTGAGGGGAATCTGCTTCTTAGG
AGTGGGTTGAGCTGATAGAGAAAAACGGCCTTCAGCCCAGGCTGGGAAGCGCCTTCTCCAGGTGCCTCTCCCTC
ACCAGCTCTGCACCCCTCTGGGGAGCCTTCCCCACCTTAGCTGTCTCCTGCCCCAGGGAGGGATGGAGGAGATAA
TTTGCTTATATTAAAAACAAAAATGGCTGAGGCAGGAGTTTGGGACCAGCCTGGGCTATATAGCAAGACCCCAT
CACTACAAATTTTTTACAAATTAGCTAGGTGTGGTGGTGCACCTGTGGTCCCAGCTACTCGGGAGGCTGTGGT
GGGAGGATTGCTTGAGTCCAGGAGGTTGAGGCTGCAGTCAGCTCAGATTGCACCACTGCACTCCAGCCTGGGCAA
CAGAGCGAGACCCTGTCTCCAAAAAAAAAAAAAAAAAGCAATGTTTATATTATAAAAGAGTGTCTTAACAGTCCCCG
GGCTAGAGAGGACTAAGGAAAACAGAGAGAGTGTTACGCAGGAGCAAGCCTTTCATTTCTTGGTGGGGGAGGGG
GGCGGTTGCCCTGGAGAGGGCCGGGGTTCGGGGAGGTTGGGGGGTGTCAGCCAAAACGTGGAGGTGTCCCTCTGCA
CGCAGCCCTCGCCCGGCGTGGCGCTGACACTGTATTCTTATGTTGTTTGAATGCTATTTATATTGTAAAGAAG
CGGGCGGGTGCCCTGCTGCCCTTGTCCCTTGGGGGTACACCCATCCCTGGTGGGCTCCTGGGCGGCCTGCGC
AGATGGGCCACAGAAGGGCAGGCCGGAGCTGCACACTCTCCCCACGAAGGTATCTCTGTGTCTTACTCTGTGCAA
AGACGCGGCAAAACCCAGTGCCCTGGTTTTTCCCCACCCGAGATGAAGGATACGCTGTATTTTTTGCCTAATGTC
CTGCCTCTAGGTTTATAATGAATTAAAGGTTTATGAACGCTGCG

1934/2825
FIGURE 1714

RIFGASPPRNLAIQKCASRTAAAMGSEDHGAQNPSCKIMTFRPTMEEFKDFNKYVAYIESQGAHRAGLAKIIPPK
EWKPRQTYDDIDDVVIPAPIQQVVTGQSGLFTQYNIQKKAMTVGEYRRLANSEKYCTPRHQDFDDLERYWKNLT
FVSPYIYGADISGSLYDDDVAQWNIGSLRTILDMVERECGTIIIEGVNTPYLYFGMWKTTFAWHTEDMDLYSINYH
FGEPKSWYAIPPEHKGRLERLAIGFFPGSSQGCDALRHKMTLISPIILKKYGIPFSRITQEAGEFMITFPYGYH
AGFNHGFNCAESTNFATLRWIDYGKVATQCTCRKDMVKISMDVFVRILQPERYELWKQGKDLTVLDHTRPTALTS
PELSSWSASRASLKAKLLRRSHRKRSQPKKPKPEDPKFPGEGETAGAALLEEAGGSVKEEAGPEVDPEEEEEEPQP
LPHGREAEGAEEEDGRGKLRPTKAKSERKKKSFGLLPPLPPPPAHFPSEEALWLPSPLEPPVLGPGPAAMEESPL
PAPLNVVPPPEVPSEELEAKPRPIIPMLYVVPRPGKAAFNQEHVSCQQAFEHFAQKGPTWKEPVSPMELTGPEDEGA
ASSGAGRMETKARAGEGQAPSTFSKLMKMEIKKSRRHPLGRPPTRSPLSVVKQEASSDEEASPFSGEEDVSDPDAL
RPLLSLQWKNRAASFQAERKFNAARTEPYCAICTLFYPYCQALQTEKEAPIASLGEGCPATLPSKSRQKTRPL
IPEMCFTSGGENTEPLPANSYIGDDGTSPLIACGKCCLQVHASCYGIRPELVNEGWTCSRCAAHAWTAECCLCNL
RGGALQMTTDRRWIHVICAIAPPEARFLNVIERHPVDISAIPQWRWKLKCVYCRKRMKKVSGACIQCSYEHCS
FHVTCAHAAGVLMEDDWPYVVSITCLKHKSOGHAYQLLRAVSLGQVVITKNRNGLYYRCRVIGAASQTCYEVNF
DDGSYSDNLYPESITSRDCVQLGPPSEGELVELRWTGDNLYKAKFISSVTSHIYQVEFEDGSQTLTVKRGDIFTLE
EELPKRVRSRSLSLSTGAPQEPAFSGEEAKAAKRPRVGTPLATEDSGRSQDYVAFVESLLQVQGRPGAPF

1935/2825
FIGURE 1715A

CGGCACCGTCGTAGGTGCGGGCCGCATGAATGGAGCGCCGGGCGTAAGGCAAAGCCTGGCACCGTCTGCGCGGCC
GCTATCTGCTCCCGGAGCGTGAGTGCGGGGTGTGGGGCGTGCGCGTGC CGCGCTCAGAGGGGGCTCAAGGCGAGCG
CGCCGGGCAGTTGCGGGCGCGTGCGTGTGAGGTTGGCGCGGTGCCGCGCGCCGACGGGCCGGTGGTTGCGGG
GCCTCCCGCCTCGACCCGGGCTGGGGGCAGCCGTGGCGGGCGCCGGGGACCGCAAGGGGCGGAGGAAAGGAGGGG
GCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACATGGCCTCCTTGATCCAACGGATCGCCC
GCCAGGCTTGCTCACCCTCCGGGGCAGCGGGGGCGGCCGCGCGCTTCCGATCGCGACGCGGCTTCTGGCGCGG
AGGCGCCGATGCAGCCGGGCTTCCCCGAGAACCTGAGCAAGCTGAAGAGCCTCCTGACCCAGCTCCGCGCCGAGG
ACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCAACCTGCCGCCAGTCACCTACATGCACA
TCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCCTGCTCAAGAGCGGCACGTCCATCCCGCTGCACGACCACC
CGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCGTGCGCATCAGCTGCATGGACAAGCTAGACGCGGGCG
GCGGGCAACGGCCGCGGGCCTTGCCGCCGAGCAGCAGTTTCGAGCCGCGCTGCAGCCCCGGGAGCGAGAAGCCG
TGCGGCCGGGCGTGCTGCGTTCGCGGGCCGAGTACACCGAGGCCAGCGCCCCCTGCATCCTCACACCGCACCGGG
ACAACCTGCACCAGATCGACGCCGTGGAAGGGCCTGCCGCCCTCCTGGACATCCTGGCCCCGCCCTACGACCCGG
ACGATGGCCGGGACTGCCACTATTACCGGGTGTGGAGCCGGTCAGGCCCAAGGAGGCCTCCAGCTCGGCCTGTG
ACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTTCTGGTGCGAGGGAGAACCCTATCCAG
GTCCCAAGGTCTTCCCTTGAAGCCACTGGCGCCCAGGAGCGGTGGGCCGAAGACGTGCCCTACCCTACCACAAGG
GCTGTGTCTTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCAGCAGCCGCTTCTCGGCAGCCTTGGG
AAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGGCGGGGTGGGCGGGGAGGCTAGATTGTTTCC
TGGTACTGTCACTGCCACTGGGGCTTTGATTTGGAGGAATGGGGCAGGGGACTATCTGAAGCGCTTCCATCTAA
AGCCATAATGAAAATATCTTCTCTCTTCCCCATTCTATACAAAATACTAAGTGGTTTTCTTGCTCCCACTCCCT
ACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCTTTTTTTCTTATAGTTTTTTAACTTATTG
ACTGTGCATGACCCAGTGGTTTGAATTGTTTTTAGTTCAAGTCATTGGTAAAACTAGGTTTAAAGGAGATGAGCT
ACTGTTTTAAAGTGAGCTGGCCTGCCTAATTAATTCCTTGTGAAAACTAAATGATTTTTTTCAGTTTGGGGATCATT
CTCACAACATAACTATGCATGTAGAGGACAAGATTTATTTTCTTTTCTCCCTTTGCCAGTAGCCACATCTGGTT
TACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGACATGGTCACTTAGAGCTTATCTTCCC
TATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTCATGTTGCAGATTCACCTTTAATGCAAAGACTGTATTATCC
TCACATGACTTTTTTTCTTGCTTACTGTACCTTAAAAGGTGATAGAGTAATTCTGTATTTTCTAACGGGAAGAT
TCAAAGGAGCTGAATGTGTTATGCTTCCAACAACCTGAATGTAAAACACTCCTAGCCAGTTGTTGCATTCCCTAT
ATTTATTTACTTCCAATATTTTACTGTAAAAGTAGGGAGAAATATTATGTTGATAGTTGTTTTCATATTCTCTCAG
GAACTTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTTGCTGGCAGTGTTGTCTCAACCCTCTCCCTAAAATG
ACTGAGCCCTGGGTTTCATCTAATGTGGTTTTCTTAGGAAGAGATAGAAGGCACAGAAGATCACAGCTAGAGAAT
TGAGAATTAATACTACTACTAGCCATTTTAGGGCACAAAACCTGGGATTAAACACTTCCTACTTCCCACTCCCA
ACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTGTGCTTTTAATAGTCCGAGCAGTCTTACCTT
GTTTACACATGTATTGACACCATTGCTTCAGGCCATGGAGCACTGTTTCTCCCTTTTTACTATTTATAGGATTC
CGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACACATTAAAATTTGCCAGCTGTGCTCTAA
GCCCTCTTGATTGACTTGCCCAAGTGGCAATAGAGTTCTAATATCTATAATAAAGGGAGATTTGCTATTATTAGT
GGAATGTTGACCCCGTATGTAGAGAAACAGTACGTGCCTTTGCCTCTTTATGCACACAGAGACCCAGGGTGAGGG
AGTATTTGTTCCAGTTTTTTAAGATAGTATAAAAAAGCAAATACTTGGTGAGTGATTTAAAAATAAAACCAAAAC
AAAACACAAAAAGATATTCCACAGGACATGCCACTTTATTATAAAACCTGACACAGGCATAGTACCAAGTATTTT
CTGCATTGTTGCTAAAATTGTTTTATTGTAGCTCCACATTCTGGTGTAGTTTAAAATGCCTTTGGGGGCAGTTTG
AAGCAGTTCTTCATGCCACTTAGTTTGAAAATAAAATTCTAGATATGCAAATGATTTTCTTAGAAAACCTTCACAA
AATAAAAGATCTTGTTTTTTTTTCCATAGCACAGTAATGAATGTGGTTATCAATCACATACTTTTTTGGATTATA
TTGTAGCAAAAAGTTGATTAGCTTACCAAGATTATTAATAGCAATGTATGTGTTATAATACAACTTAGTACATTA
AAGCTACGAAAACCTATCCTGGCTGTAGGATAGTAATAAAGGAAGAATTATGACTTCATTATGAAAAAAGAAAGT
TTTAAAGTTTTCAATTACGAGCAATTTGGAAGAAAAAACCTAAGGTGCTTTTCAAAGAGTAAGTGAATTTGTTG
CAGGCCAAAACAGCAATATGATATCTCAGATTTAGTTCAATAAGAACAGTGAAACTTTTGGTTCACTAATAAATT
CTGAGTAAATTAGTGGTGAAGACAAAATATAACTTGTTTTAGTGAGCCACTGAGGAAAGAATATGCTTATTACAA
AGACAAAATGTGGTGCAGAACTATCTTGACCTGTGTGCATAAACTGTTAGTCGTGACTGACTTGGTGTGTTGC

1936/2825
FIGURE 1715B

TATTGTGTTTCTATATACTCCGTCCAATATAGATAATGTTTTAATAACAACGTGTTGGGATAAAAGTTATCTTCCCC
TTGGAAAGACTAATGAGCACAATGATATTAATCACTTTTATGGTGAATAATAAATGCAATAATTGCCTCATGGGT
GAGAAATTGTCTGTCC

1937/2825
FIGURE 1716

MPRDNMASLIQRIARQACLIFRGSGGGRGASDRDAASGAEAPMQPGFPENLSKLKSLLTQLRAEDLNIAPRKATL
QPLPPNLPPVTYMHYETDGFSLGVFLLKSGTSIPLHDHFGMHGMLKVLYGTVRISCMDKLDAGGGQRPRALPPE
QQFEPPPLQPREREAVRPGVLRSAEYTEASGPCILTPHRDNLHQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRV
LEPVRPKEASSACDLPREVWLLETPQADDFWCEGEPYPGPKVFP

1938/2825
FIGURE 1717

GGGGGAGAGGGGGCTCAAGGCGAGCGCGCCGGGCAGTTGCGGGCGCGTGGCTGCTGAGGTTGGCGGCGGTGCCGC
GCGCCCCGACGGGGCCGGTGGTTGCGGGGGCTCCCGCCTCGACCCGGGCTGGGGGCGAGCCGTGGCGGCGCGCGGGGA
CCGCAAGGGGGCGGAGGAAAGGAGGGGGCCGGTCCCGGCACGCAGAGGAGCAGCCGACCATGCCCCGAGACAACAT
GGCCTCCTTGATCCAACGGATCGCCCGCAGGCTTGCCTCACCTTCCGGGGCAGCTGGGGCGGCGCGGCGCTTC
CGATCGCGACGCGGCTTCTGGCGCGGAGGCGCCG**ATG**CAGCCGGGCTTCCCCGAGAACCTGAGCAAGCTGAAGAG
CCTCCTGACCCAGCTCCGCGCCGAGGACTTGAACATCGCCCCGCGCAAGGCCACACTGCAGCCGCTGCCGCCCAA
CCTGCCGCCAGTCACCTACATGCACATCTACGAGACGGACGGCTTCAGCCTGGGCGTGTTCCTGCTCAAGAGCGG
CACGTCCATCCCGCTGCACGACCACCGGGCATGCACGGCATGCTCAAGGTGCTGTACGGCACCGTGCGCATCAG
CTGCATGGACAAGCTAGACGCGGGCGGGCGGGCAACGGCCGCGGGCCTTGCCGCCCAGCAGCAGTTTCGAGCCGCC
GCTGCAGCCCCGGGAGCGAGAAGCCGTGCGGCGGGCGGTGCTGCGTTGCGGGCCGAGTACACCGAGGCCAGCGG
CCCCTGCATCCTCACACCGCACCGGGACAACCTGCACCAGATCGACGCCGTGGAAGGGCCTGCCGCCTTCCTGGA
CATCCTGGCCCCGCCCTACGACCCGGACGATGGCCGGGACTGCCACTATTACCGGTGCTGGAGCCGGTCAGGCC
CAAGGAGGCCTCCAGCTCGGCCTGTGACCTGCCTCGAGAGGTGTGGCTCCTGGAGACCCACAGGCCGATGACTT
CTGGTGCGAGGGAGAACCCTATCCAGGTCCCAAGGTCTTCCCT**TGAA**GCCACTGGCGCCCAGGAGCGGTGGGCCG
AAGACGTGCCCTACCCCTACCACAAGGGCTGTGTCTCTACCCCTAGCCTGGGCGTTGGATCTACTGGAATGAGCA
GCAGCCGCTTCTCGGCAGCCTTGGAAGCACGGGCGACTGGACAGCAGCCGCCGGGCACGGTTATGGGGCGGG
GTGGGCGGGGAGGCTAGATTGTTTCTGGTACTGTCACTGCCACTGGGGCTTTGATTTGGAGGAATGGGGCAGGG
GACTATCTGAAGCGCTTCCATCCTAAAGCCATAATGAAAATATCTTCTCTTCCCCATTCTATACAAAATACT
AAGTGGTTTTCTTGCTCCCACTCCCTACCCCTTAGTTAAATAGGGTTTATTTTCCACTCATGCCCTTATGCCCTT
TTTTCTTATAGTTTTTTAACTTATTGACTGTGCATGACCCAGTGGTTGAATTGTTTTTAGTTCAAGTCATTGGT
AAAAACTAGGTTTAAGGAGATGAGCTACTGTTTAAAGTGAGCTGGCCTGCCTAATTAATTCCTTGTGAAAATAA
ATGATTTTTTTCAGTTTGGGGATCATTCTCACAAACATAACTATGCATGTAGAGGACAAGATTTATTTTCTTTCCTC
CCTTTGCCCAGTAGCCACATCTGGTTTACTCAGGCAGCATCTACTAAGAAATTCAGCACCTGCATATCTCTGTGA
CATGGTCACTTAGAGCTTATCTTCCCTATGAATCTCCAGATCTGTGAGTCGAGCAGATTTTCATGTTGCAGATTCA
CCTTTAATGCAAAGACTGTATTATCCTCACATGACTTTTTTTCTTGTCTTACTGTACCTTAAAAGGTGATAGAGT
AATTCTGTATTTTCTAACGGGAAGATTCAAAGGAGCTGAATGTGTTATGCTTCCAAACAACCTGAATGTAAACAC
TCCTAGCCAGTTGTTGCATTCCCTATATTTATTTACTTCCAATATTTTACTGTAAAAGTAGGGAGAAATATTATG
TTGATAGTTGTTTCATATTCTCTCAGGAACCTTAATGTTCCCGACTCGGGTGATTCCAGCTGTGTTGCTGGCAGT
GTTGTCTCAACCCTCTCCCTAAAATGACTGAGCCCTGGGTTCACTAATGTGGTTTTCTTAGGAAGAGATAGAA
GGCACAGAAGATCACAGCTAGAGAATTGAGAATTAATACTATACTACTAGCCATTTTAGGGCACCAAACTTGGGAT
TAAACACTTCCTACTTCCCACTCCCAACTCCTGAAATGAAGTCTTGCTATCTGTGACTAGTTTTATTTTTGTGCT
TTTAATAGTCCGAGCAGTCTTACCTTGTTTACACATGTATTGACACCATTTGCTTCAGGCCATGGAGCACTGTTT
CTCCCTTTTTTACTATTTATAGGATTCCGTTTTTTCACAAGACTTTTAATAAAAAGAAATTGTAGAAATAAACAC
ATTAAAAATAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1939/2825
FIGURE 1718

MQPGFPENLSKLKSLLTQLRAEDLNIAPRKATLQPLPPNLPPVTYMHYETDGFSLGVFLLKSGTSLPLHDHPGM
HGMLKVLYGTVRISCMDKLDAGGGQRPRALPPEQQFEPPLOPREEREAVRPGVLRRAEYTEASGPCILTPHRDNL
HQIDAVEGPAAFLDILAPPYDPDDGRDCHYYRVLEPVRPKEASSSACDLPREVWLLETPOADDFWCEGEFYPGPK
VFP

1940/2825
FIGURE 1719

CCGGTAGCGGGTGTGGGGGCGCGAGCAGCGCAGGGCGGCCTCTCCCCACCCCTCAGCCCGGGCCCCGGGCTCGGT
CCCCCTCTCCCTCCGCTTCGCACTCCCGTCGGGTACGGGAAGGTCCAAGCCGCTGCCGGGTGCCCGAGGGCCGT
CGTGGCCGCCGTGCGCCACGGGTCCCAATGGAGCCGCCGAATCTCTATCCGGTGAAGCTCTACGTGTACGACCTGT
CCAAAGGCCTGGCCCCGGCGGCTCAGCCCCATCATGCTGGGGAAACAACCTGGAAGGCATCTGGCACACATCCATAG
TTGTGCACAAGGATGAGTTCTTCTTCGGCAGTGGTGGTATCTCCAGCTGCCCCCGGGAGGGACATTGCTTGGGC
CTCCAGACTCTGTGGTTGATGTGGGGAGTACAGAAGTCACAGAAGAAATCTTTCTGGAGTACCTCTCCTCCCTGG
GGGAGTCCCTGTTCCGAGGTGAGGCCTACAACCTCTTTGAACACAATTGTAACACCTTCAGCAACGAAGTGGCAC
AGTTCCTGACTGGGCGGAAGATTCTTCTTACATCACAGACCTGCCCTCTGAAGTTCTCTCCACGCCCTTTGGAC
AGGCACTTCGGCCCCCTCCTGGACTCCATTGAGATCCAGCCTCCAGGAGGGAGCTCCGTGGGCAGACCCAACGGCC
AGAGCTAAACAGGACTGCCTGGGACCGCCCTGCCTCACCAGGGCTTTTCTTTTTTAAACAAAACAAACCCTACCAG
ATTTCTATTTTATAATTTTACATCAGAGCTAACAACCAGGGGACGGCTTTTAAATTTCCAGGGAAGGAGACCG
TCAGGCCGCATGTAGACAATGCTGCTAAGAAACAGAACAAAATGCCACCCCTTCTAATAGTATTATACTAATTTA
TTAAAAAAAAAAAAAAAAAAAAA

1941/2825
FIGURE 1720

GSGCGGASSAGRPLPHPSARARARSPLSLRFALPSGTGRSKPLPGARGPSWPPSPRVPMEPNLYPVKLYVYDLS
KGLARRLSPIMLGKQLEGIWHTSIVVHKDEFFFGSGGISSCPPGGTLLGPPDSVVDVGSTEVT EEIFLEYLSSLG
ESLFRGEAYNLFEHNCNTFSNEVAQFLTGRKIPSYITDLPSEVLSTPFGQALRPLLD SIQIQPPGGSSVGRPNGQ
S

1942/2825
FIGURE 1721

GAGCGCGCGGGCGCTACTAGCCGCGGGGGCCAGGCGCCTGGCTTCTTACTGCGGCTTCATACTGAGGGCCCAGCC
GAGGCGGCGCGGGTGCAGGAGCAGGACTTACGGCAGTGGGGGCTGACAGGGATTACCTACGCTCTTACCAGCTG
GAGGGAGTAAACTGGCTCGCCCAGCGCTTCCATTGTGAGAATGGCTGTATCCTGGGAGATGAGATGGGCCTGGGG
AAGACCTGCCAGACTATTGCTCTCTTCATTTATTTGGCAGGAAGATTAAATGATGAAGGGCCATTTCTGATTCTT
TGTCCCTTGTCTGTTTTGAGCAACTGGAAGAAGAAATGCAGAGATTGCTCCAGGTCTTTCCTGTGTAACATAT
GCAGGCGACAAGGAGGAAAGAGCCTGCCTTCAGCAAGACCTGAAACAGGAGTCACGTTTTTCATGTGCTACTGACT
ACCTATGAGATTTGCTTGAAAGATGCATCATTTCTAAATCATTCCCTTGGAGTGTTCTTGTTGTGGATGAAGCT
CACAGGTTGAAAAACCAAAGCTCCCTGCTGCATAAGACCTTGTGAGAGTTCTCAGTAGTCTTCAGTCTCCTGTTG
ACCGGAACCTCCCATCCAGAACAGCCTCCAAGAGCTCTACTCCCTCCTCAGTTTTGTGGAGCCTGATCTCTTTTCC
AAGGAAGAGGTGGGAGATTTTATTCAACGCTACCAGGATATTGAGAAAGAATCTGAGTCAGCAAGTGAAGTGCAC
AAACTCTTGACGCCATTTCTGCTGAGGCGAGTGAAAGCTGAGGTAGCTACAGAGCTTCCCAAGAAGACAGAAGTA
GTGATATACCATGGCATGTCAGCATTGCAGAAGAAATACTACAAGGCCATTTTGATGAAAGACCTAGATGCATTT
GAAAATGAGACGGCAAAGAAAGTTAAACTACAGAACATTTTGTCCCAGCTTCGAAAGTGTGTGGATCACCCATAT
TTGTTTGATGGTGTGGAGCCGGAGCCTTTTGAAGTTGGAGACCACCTGACTGAGGCTAGTGGGAAGCTTCACCTG
CTGGATAAGCTACTAGCATTCTGTATTCTGGGGGCCATCGGGTTTTACTTTTCTCCCAAATGACCCAGATGTTG
GATATTCTCCAAGACTATATGGATTACAGAGGCTACAGCTATGAGCGTGTGGATGGTCTGTGAGAGGAGAAGAG
AGACACTTGGCCATTAAGAACTTTGGACAGCAGCCCATTTTCGTTTTTCTCCTGAGTACTAGGGCAGGTGGAGTT
GGCATGAACTTAACAGCAGCAGATACTGTGATTTTTGTTGACAGTGACTTTAATCCTCAGAATGACTTGCAAGCA
GCTGCCAGGGCTCATCGCATTGGCCAAAACAAGTCTGTTAAAGTTATTCGGCTGATTGGTCGAGACACTGTGGAA
GAAATAGTCTATAGGAAAGCAGCCTCCAACTGCAGCTCACCAACATGATCATAGAAGGAGGCCATTTTACTCTG
GGAGCCCCAAAAACCGCTGCCGATGCTGACCTCCAGTTGAGTGAGATACTCAAATTTGGTTTGGATAAACTGCTG
GCCTCTGAGGGGAGCACCATGGATGAAATAGACCTGGAGTCCATCCTGGGAGAAACAAAAGATGGCCAGTGGGTC
TCTGATGCCTTGCTGACGAGAGAAGGAGGGAGCAGAGATCAAGAGGAAGGAAAAAATCATATGTACTTATTTGAA
GGTAAAGATTATTTCTAAAGAGCCAGTAAGGAAGACAGAAAAATCATTGAAACAAGTGGTAAACCTTCAGAAAAAC
CTTTTGGAGAAAAGCTAGTCAAGAGGGCCGATCACTCCGAAATAAAGGCAGTGTTCTCATCCCAGGCCTTGTGGAG
GGATCTACCAAAAGGAAGCGGGTTCTGAGTCCAGAAGAGCTGGAGGACAGACAGAAGAAAAGACAAGAAGCAGCT
GCCAAGAGAAGGAGACTCATAGAGGAGAAGAAGAGGCCAAAAGGAAGAGGCTGAACATAAGAAAAAGATGGCCTGG
TGGGAATCCAACAATTACCAGTCCTTCTGCCTGCCCTCTGAGGAGAGCGAGCCAGAGGACCTTGAGAATGGGGAA
GAGAGCTCTGCTGAGCTGGATTACCAAGACCCAGATGCTACTTCCCTCAAGTACGTTAGTGGTGATGTCACCCAC
CCTCAGGCTGGGGCCGAGGATGCTCTCATTGTGCACTGCGTAGATGACTGTGGCCACTGGGGCAGAGGTGGTTTA
TTTACAGCTCTGGAAGCGATCCGCTGAGCCAAGAAAAATATATGAGCTGGCTGGGAAAATGAAAGACCTGAGT
TTGGGAGGTGTCCTTTTATTTCTGTTGATGATAAAGAATCAAGAAACAAAGGGCAAGATTTGTTGGCCTTGATT
GTGGCTCAGCATCGTGATCGTTCCAATGTCTGTCTGGCATTAAAGATGGCAGCCCTAGAAGAGGGCCTGAAGAAG
ATATTTTGTAGCAGCAAAAAGAAGAAAGCAAGTGTTCATCTTCCACGTATTGGACATGCCACGAAAGGTTTTAAC
TGGTATGGTACTGAGCGACTTATTCGGAACATCTGGCTGCAAGAGGCATCCCACTTACATATATTATTTTCT
AGAAGCAAGTCTGCTGTCCTTCATTACAGTCTTCATCTTCTCCTCAAGACAGCTGGTGCCTTAAAGAATTGGCC
CAGCCTCAGATCCTGTCTTTAGCAACCAGCTAATATTTACCCAGAGGTACTGCAATAGAGTATTTCAAAATGGAA
TCAGGATCTGGTGGGCCTCAGAAATTGTCTCTTTTCTGAGTTTCAGTTTGTTTCTCCTGGATGTTTTGCTCTGTT
TTGGTACCTGTAATATAGGGAAACACAACTTTTTTTGGGAAAGCCCTTGACCCAGCTTGCTAGTTGCATAATA
ATAAATTTTCTGTTCTAATGGTAAAAAAAAAAAAAAAAAAAAA

1943/2825
FIGURE 1722

ERAGATSRGGQAPGFLLRLHTEGPAAEARVQEQDLRQWGLTGIHLRSYQLEGVNWLAQRFHCQNGCILGDEMGLG
KTCQTIALFIYLAGRLNDEGPFLILCPLSVLSNWKEEMQRFAPGLSCVTYAGDKEERACLQODLKQESRFHVLLT
TYEICLKDASFLKSFWSVLVVDEAHLKKNQSSLLHKTLEFSVVFSLLLTGTPIONSLQELYSLLSFVEPDIFS
KEEVGDFIQRYQDIEKESESASELHKLLQPFLRRVKAEVATELPKKTEVVIYHGMSALQKKYYKAILMKDLDAF
ENETAKKVKLQNILSQLRKCVDPYLFDFGVEPEPFEVGDHLTEASGKLHLLDKLLAFLYSGGHRVLLFSQMTQML
DILQDYMDYRGYSYERVDGSGRGEERHLAIKNFGQQP IFVFLLSTRAGGVGMNLTAADTVIFVDSDFNPQNDLQA
AARAHRIQNKSVKVIRLIGRDTVEEIVYRKAASKLQLTNMIEGGHFTLGAQKPAADADLQLSEILKFGLDKLL
ASEGSTMDIDLESILGETKDGQWVSDALPAAEGGSRDQEEGKNHMYLFEGKDYSKEPSKEDRKSFEQLVNLQKT
LLEKASQEGRSLRNKGSVLIPGLVEGSTKRKRVLSPEELEDQRQKRQEAAAKRRRLIEEKKRQKEEAHKKKMAW
WESNNYQSFCLPSESEPEDLENGEESSAELDYQDPDATSLKYVSGDVTHPQAGAEDALIVHCVDDCGHWGRGGL
FTALEKRSAEPRKIYELAGMKDLSLGGVLLFPVDDKESRNGQDLLALIVAQHRDRSNVLSGIKMAALEEGLKK
IFLAAKKKKASVHLPRIGHATKGFNWYGTERRLIRKHLAARGIPTIYYFPRSKSAVLHSQSSSSSSRQLVP

1944/2825
FIGURE 1723

GGCACGAGGCTACCCCTTTGCTGCCTTAAACTTGCTTTTCTAGATCCTGATACTGGTAAACTGACTGGCGGATCAT
TTACCATGAAATACCATGATATGCCTGACGTTATAGATTTCTAGTCTTGAGACAACAATTTGATGATGCAAAAT
ACAGGCGATGGAATATAGGTGACCGCTTCAGGTCTGTCTATAGATGATGCCTGGTGGTTTTGGAACAATCGAAAGCC
AGGAACCTCTTCAACCTGAGTACCCTGATAGTCTGTTTCAATGCTACAATGTTTGCTGGGACAATGGAGATACAG
AAAAGATGAGTCCTTGGGATATGGAGCTTATACCTAATAATGCTGTATTTCTGAAGAACTAGGTACCAGTGTTT
CTTTAACTGATGGTGAGTGCAGATCACTAATCTATAAACCTCTTGATGGAGAATGGGGTACCAATCCCAGGGATG
AAGAATGTGAAAGAATTGTGGCAGGAATAAACAGTTGATGACACTAGATATTGCCTCAGCATTTGTGGCCCCCG
TGGATCTGCAAGCCTATCCCATGTATTGCACAGTAGTGGCATATCCAACGGATCTAAGTACAATTAAACAAAGAC
TGGAAAACAGGTTTTACAGGCGGGTTTTCTTCCCTAATGTGGGAAGTTTCGATATATAGAGCATAATACACGAACAT
TTAATGAGCCTGGAAGCCCTATTGTGAAATCTGCTAAATTCGTGACTGATCTTCTTCTACATTTTATAAAGGATC
AGACTTGTTATAACATAATTCCACTTTATAATTCAATGAAGAAGAAAGTTTTGTCTGATTCTGAGGATGAAGAGA
AAGATGCTGATGTGCCAGGAACCTTCTACTCGAAAAAGGAAGGACCATCAGCCTAGAAGAAGATTACGTAATAGAG
CCCAGTCTTACGATATTCAAGCATGGAAGAAACAGTGTGAAGAATTGTTAAATCTCATATTTCAATGTGAAGATT
CAGAGCCTTTCCGTCAGCCGGTAGATCTCCTTGAATATCCAGACTACAGAGACATCATTGACACTCCAATGGATT
TTGCTACCGTTAGAGAACTTTAGAGGCTGGGAATTATGAGTCACCAATGGAGTTATGTAAAGATGTCAGACTTA
TTTTTCAGTAATTCCAAAGCATATACACCAAGCAAAAGATCAAGGATTTACAGCATGAGTTTGCCTTGTCTGCAT
TCTTTGAAGAACACATTAGTTTCAGTTTTATCAGATTATAAATCTGCTCTTCGTTTTTCATAAAAGAAATACCATAA
CCAAAAGGAGGAAGAAAAGAAACAGAAGCAGCTCTGTTTCCAGTAGTGCTGCATCAAGCCCTGAAAGGAAAAAAA
GGATCTTAAAAACCCAGCTAAAATCAGAAAGCTCTACCTCTGCATTCTCTACACCTACACGATCAATACCGCCAA
GACACAATGCTGCTCAGATAAACGGTAAAACAGAATCTAGTTCTGTGGTTCGAACCAGAAGCAACCGAGTGGTTG
TAGATCCAGTTGTCACTGAGCAACCATCTACTTCTTCAGCTGCAAAGACTTTTATTACAAAAGCTAATGCATCTG
CAATACCAGGGAACAATACTAGAGAATTCTGTGAAACATTCCAAAGCTTTGAATACTCTTTCCAGTCTCTGGTC
AATCCAGTTTTAGTCATGGCACTAGGAATAATTCTGCAAAAAGAAAACATGGAAAAGGAAAAGCCAGTCAAAACGTA
AAATGAAGTCATCTGTACTCCCAAAGGCGTCCACTCTTTCAAAGTCATCAGCTGTCTATTGAGCAAGGAGATTGTA
AGAACAACGCTCTTGTACCAGGAACCATTCAGTAAATGGCCATGGAGGACAGCCATCAAAACTTGTGAAGAGGG
GACCTGGAAGGAAACCTAAAGTAGAAGTTAATACCAATAGTGGTGAAATTATACACAAGAAAAGGGGTAGAAAGC
CCAAAAGCTACAGTATGCAAAGCCAGAAGATTTAGAGCAAAATAATGTGCATCCCATCAGAGATGAAGTACTTC
CTTCTTCAACATGCAATTTTCTTTCTGAACTAATAATGTAAAGGAAGATTTGTTACAGAAAAAGAATCGTGGAG
GTAGGAAGCCCAAAAGGAAGATGAAGACACAAAAATTAGATGCAGATCTCCTAGTCCCTGCAAGTGTCAAAGTGT
TAAGGAGAAGTAACCGAAAAAAGATAGATGATCCTATAGATGAGGAAGAAGAGTTTGAAGAACTCAAAGGCTCTG
AACCCCATGAGAACTAGAAATCAAGGTCGAAGGACAGCTTTCTATAATGAGGATGACTCTGAAGAGGAGCAAA
GGCAGCTGTTGTTTCGAAGACACCTCTTTAACTTTTGGAACTTCTAGTAGAGGACGAGTCCGAAAGTTGACTGAAA
AAGCAAAAGCTAATTTAATTGGTTGGTAACTTGTACCAAAATATTTTACTTCAAAATCTATAAAGCAGGTACAGT
TAAGGAATAAGTAGAACTAAGGCTTCTGCTTCTGCTGCTGTGGTGGAGTAGGGAATGTTATGATTTGATTTGC
AAAAAAAAAAAAAAAAAAAAA

1945/2825
FIGURE 1724

MSPWDMELIPNNAVFPEELGTSVPLTDGECRSLIYKPLDGEWGTNPRDEECERIVAGINQLMTLDIASAFVAPVD
LQAYPMYCTVVAYPTDLSTIKQRLNRFYRRVSSLMWEVRYIEHNTRTFNEPGSPIVKSASFVTDLLLHF IKDQT
CYNIIPLYNSMKKKVLSDSEDEEKDADVPGTSTRKRKDHQPRRRLRNRAQSYDIQAWKKQCEELLNLIFQCEDSE
PFRQPVDDLLEYPDYRDIIDTPMDFATVRETLEAGNYESPMELCKDVRLIFSNSKAYTPSKRSRIYSMSLRLSAFF
EEHISSVLSDYKSALRFHKRNTITKRRKKRNRSSSVSSSAASSPERKKRILKPQLKSESSTSAFSTPTRSIPPRH
NAAQINGKTESSSVVTRSNRVVVDPVVTEQPSTSSAAKTFITKANASAIPGKTILENSVKHASKALNTLSSPGQS
SFSGTRNNSAKENMEKEKPVKRKMSSVLPKASTLSKSSAVIEQGDCKNNALVPGTIQVNGHGGQPSKLVKRGF
GRKPKVEVNTNSGEIIHKKRGRKPKKLQYAKPEDLEQNNVHP IRDEVLPSSTCNFLSETNNVKEDLLQKKNRGGR
KPKRKMKTQKLDADLLVPASVKVLRRSNRKKIDDPIDEEEEFEELKGSEPHMRTRNQGRRTAFYNEDDSEEEQRQ
LLFEDTSLTFGTSSRGRVRKLTEKAKANLIGW

1946/2825
FIGURE 1725

GGCACGAGGGCGGACGGGCGGACTGACGGGCGCCTCCACCTTGCTCCCTCCCTGGCTGCCGGCTTCCTTTTGTCT
TTCTGGGCGGCGATGAGCGCAGGGCCGGCGCAGCAGCTGCGGGCGCACGGAGGCCCGCGCTGCTAGTCACTCCTC
CCGGCCTCGGCGCGCTTGTCGCCGGGCAGCGGCCCGGGCCCGCTGCAGCCGCCGCCGGCGCCGAACCTTGGGCTCGG
GAAGCCGGCGGACCGCGTCTGCGCCGGAGCAGGGGCATGGTCTAGTGGCCAGTCAGGACGCGGAAACACTCCC
TGGAGGTTCTGACCCGCTCCCTCTCAGCCTCCGCTGGTCTCTGGTGTAGTCGCCGCCGCCAGCCGCCATGGGCA
AACAGAACAGCAAGCTGCGGCCCGAGGTGCTGCAGGACCTGCGGGAGAACACGGAGTTACCGACCACGAGCTGC
AGGAGTGGTACAAGGGCTTCCTCAAGGACTGCCCCACGGCCACCTGACCGTGGACGAGTTCAAGAAGATCTACG
CCAACCTTCTTCCCTACGGCGACGCTTCCAAGTTGCGCGAGCACGTCTTCCGCACCTTCGACACCAACGGCGACG
GCACCATCGACTTCGGGAGTTTCATCATTGCGCTGAGCGTGACCTCGCGGGGCAAGCTGGAGCAGAAGCTCAAGT
GGGCCTTCAGCATGTACGACCTGGACGGCAACGGCTACATCAGCCGCAGCGAGATGCTGGAGATCGTGCAGGCCA
TCTACAAGATGGTGTCTGTGATGAAGATGCCGGAGGATGAGTCCACCCCGGAGAAGCGCACAGACAAGATCT
TCAGGCAGATGGACACCAACAATGACGGCAAACCTGTCTTGGAAGAATTCATCAGAGGTGCCAAGAGCGACCCCT
CCATCGTCCGCCTGCTGCAGTGCACCCAGCAGTGCCAGTCAGTTCTTCAGCGAGCGGGCCCTGGACAGTTGCAG
AGAAACACAGGCTTGTCTGTCGTTTAAAGCTTTGCTTGCAAGAGTGGATGCCCCGCAATCGTTCTGCTCTCCCG
GGCCCCGGGCTTGGGGCATGCGTTGCACCTGCCCGGCCCGGTGGCTGCGCCTCCCTCCTCCACCTGACCAACGCG
ACATTCTCCCTCACGCCTGGCCCGGTCCCTTCCAGGGCAACTCCCAGGGATGTGGTGACATGCAGGGTTCAAG
TGTTCTTGGTTCCAGGCACCTCCCGGCTCACGGGGAGCTCAGAGGTCCATGCCGAGGAGACCAGGCAGGACCTCC
CGAGGCTGCGCCCCGGCCGGCCCATGCGTTTTGTGATCCCAAGTGACTCTGTGGGAAGGGTGGGGACGAGGCGTC
GGGAGGGTATACAGGGAGCCCCCTCCCGTGATGGCTGCCCCCCCCGTTTCAATTTCTCCACCACAGCCGCTTGCACG
TATAGATACTGTGGTCCCCTTTCTTTTAAATATATAAAATTATGTATGGTGAAGTGGAGTGTATTGTGTAGGTCCCCG
TATTTAATGCCTCTGACTGCCTTTGAAGCGCAGCCCTCTGTGGCCCGCAGCCCCCTGAGCCTGGCTGTTGTGTGG
TATTTATGCTCTCTTTGTCTGCCTGTTTCTAAGGAAATGCATGTGTGCCCTGAGCCGTGATGATCCTCCCATCCG
TGTTGTGAGCACAGGCATTGTGTCTGGTCTGTCTCCCTGTTGATTGGTCTGGCATTTCGGGTATTAAAATGAT
AAAATAAATGGCAAAAAAAAAAAAAAAAAAAAAA

1947/2825
FIGURE 1726

MGKQNSKLRPEVLQDLRENTFTDHELQEWYKGFLKDCPTGHLTVDEFKKIYANFFPYGDASKFAEHVFRFTDTN
GDGTIDFREFIIALSVTSRGKLEQKLKWAFSMYDLGNGYISRSEMLEIVQAIYKMVSSVMKMPEDESTPEKRTD
KIFRQMDTNNDGKLSLEEFIRGAKSDPSIVRLLQCDPSSASQF

1948/2825
FIGURE 1727A

TTGCTGCGTCAACTGTGTTCCTTTGGCCTGGCTGAGTTTGATACTGTGGGGATTGAGTTTAGGCGCTGGCCCGA
GGATATCCCAGCGGTGGTACTTCGGAGACACCTGTCTGCATCTGACTGAGCCGGCTCTCCTGGCCTCGCGCTGCA
CATTCTCTCCTGGCGGCGGCGCCACCTGCAGTAGCGTTTCGCCCCAACATGGCGACACGGAGCAGCAGGAGGGAGT
CGCGACTCCCCGTTTCTATTACCCCTGGTCGCACTGCTGCCGCCCCGGAGCTCTCTGCGAAGTCTGGACGCAGAGGC
TGCACGGCGGGCAGCGCGCCCTTGCCCCAGGACCGGGGCTTCCTCGTGGTGCAGGGCGACCCGCGCGAGCTGCGGC
TGTGGGCGCGCGGGGATGCCAGGGGGGCGAGCCGCGCGGACGAGAAGCCGCTCCGGAGGAAACGGAGCGCTGCCC
TGCAGCCCCGAGCCCATCAAGGTGTACGGACAGGTTAGTCTGAATGATTCCCACAATCAGATGGTGGTGCAGTGGG
CTGGAGAGAAAAGCAACGTGATCGTGGCCTTGCCCCGAGATAGCCTGGCATTGGCGAGGCCCAAGAGCAGTGATG
TGTACGTGTCTTACGACTATGGAAAATCATTCAAGAAAATTTAGACAAAGTTAACTTTGGCTTGGGAAATAGGA
GTGAAGCTGTTATCGCCAGTTCTACCACAGCCCTGCGGACAACAAGCGGTACATCTTTGCAGACGCTTATGCCC
AGTACCTCTGGATCAGTTTTGACTTCTGCAACACTCTTCAAGGCTTTTCCATCCATTTGCGGCAGCTGATCTCC
TCCTACACAGTAAGGCCTCCAACCTTCTCTTGGGCTTTGACAGGTCCCACCCCAACAAGCAGCTGTGGAAGTCAG
ATGACTTTGGCCAGACCTGGATCATGATTAGGAACATGTCAAGTCTTTTCTTGGGGAATTGATCCCTATGACA
AACCAAATACCATCTACATTGAACGACACGAACCTCTGGCTACTCCACTGTCTTCCGAAGTACAGATTTCTTCC
AGTCCCGGGAAAACAGGAAGTGATCCTTGAGGAAGTGAGAGATTTTCAGCTTCGGGACAAGTACATGTTTGCTA
CAAAGGTGGTGCATCTCTTGGGCAGTGAACAGCAGTCTTCTGTCCAGCTCTGGGTCTCCTTTGGCCGGAAGCCCA
TGAGAGCAGCCCAGTTTGTACAAGACATCCTATTAATGAATATTACATCGCAGATGCCTCCGAGGACCAGGTGT
TTGTGTGTGTCAGCCACAGTAACAACCGCACCAATTTATACATCTCAGAGGCAGAGGGGCTGAAGTTCTCCCTGT
CCTTGGAGAACGTGCTCTATTACAGCCAGGAGGGGCCGCGCAGTGACACCTTGGTGAGGTATTTTGAAATGAAC
CATTTGCTGACTTCCACCGAGTGGAAGGATTGCAAGGAGTCTACATTGCTACTCTGATTAATGGTTCTATGAATG
AGGAGAACATGAGATCGGTATCACCTTTGACAAAGGGGGAAACCTGGGAGTTTCTTCAGGCTCCAGCCTTCACGG
GATATGGAGAGAAAATCAATTGTGAGCTTTCCAGGGCTGTTCCTTCATCTGGCTCAGCGCCTCAGTCAGCTCC
TCAACCTCCAGCTCCGGAGAATGCCCATCCTGTCCAAGGAGTCGGCTCCAGGCCTCATCATCGCCACTGGCTCAG
TGGGAAAGAACTTGGCTAGCAAGACAAACGTGTACATCTCTAGCAGTGCTGGAGCCAGGTGGCGAGAGGCACTTC
CTGGACCTCACTACTACACATGGGGAGACCACGGCGGAATCATCACGGCCATTGCCAGGGCATGGAAACCAACG
AGCTAAAATACAGTACCAATGAAGGGGAGACCTGGAACCAATTCATCTTCTCTGAGAAGCCAGTGTTTGTGTATG
GCCTCCTCACAGAACCTGGGGAGAAGAGCACTGTCTTCACCATCTTTGGCTCGAACAAAGAGAATGTCCACAGCT
GGCTGATCCTCCAGGTCAATGCCACGGATGCCTTGGGAGTTCCCTGCACAGAGAATGACTACAAGCTGTGGTCAC
CATCTGATGAGCGGGGAATGAGTGTTTGTCTGGGACACAAGACTGTTTTCAAACGGCGGACCCCCCATGCCACAT
GCTTCAATGGAGAGGACTTTGACAGGCCGGTGGTTCGTGTCCAAGTCTCCTGCACCCGGGAGGACTATGAGTGTG
ACTTCGGTTTCAAGATGAGTGAAGATTTGTCAATAGAGGTTTGTGTTCCAGATCCGGAATTTTCTGGAAAGTCAT
ACTCCCCCTCTGTGCCTTGCCCTGTGGGTTCTACTACAGGAGAACGAGAGGCTACCGGAAGATTTCTGGGGACA
CTTGTAGCGGAGGAGATGTTGAAGCGGCACTGGAAGGAGAGCTGGTCCCCTGTCCCCTGGCAGAAGAGAACGAGT
TCATTCTGTATGCTGTGAGGAAATCCATCTACCGCTATGACCTGGCCTCGGGAGCCACCGAGCAGTTGCCTCTCA
CCGGGTACGGGCAGCAGTGGCCCTGGACTTTGACTATGAGCACAACGTTTGTATTGGTCCGACCTGGCCTTGG
ACGTCATCCAGCGCCTCTGTTTGAATGGAAGCACAGGGCAAGAGGTGATCATCAATTCTGGCCTGGAGACAGTAG
AAGCTTTGGCTTTTGAACCCCTCAGCCAGCTGCTTTACTGGGTAGATGCAGGCTTCAAAAAGATTGAGGTAGCTA
ATCCAGATGGCGACTTCCGACTCACAATCGTCAATTCCCTCTGTGCTTGATCGTCCCAGGGCTCTGGTCCCTCGTGC
CCCAAGAGGGGGTGATGTTCTGGACAGACTGGGGAGACCTGAAGCCTGGGATTTATCGGAGCAATATGGATGGTT
CTGCTGCCATACCTGGTGTCTGAGGATGTGAAGTGGCCCAATGGCATCTCTGTGGACGACCAGTGGATTTACT
GGACGGATGCCTACCTGGAGTGCATAGAGCGGATCACGTTTCTGAGTGGCCAGCAGCGCTCTGTCAATTCTGGACAACC
TCCCGCACCCCTATGCCATTGCTGTCTTTAAGAATGAAATCTACTGGGATGACTGGTTCACAGCTCAGCATATTC
GAGCTTCCAAATACAGTGGGTCCCAGATGGAGATTCTGGCAAACAGCTCACGGGGCTCATGGACATGAAGATTT
TCTACAAGGGGAAGAACACTGGAAGCAATGCCTGTGTGCCAGGCCATGCAGCCTGCTGTGCCTGCCCCAAGGCCA
ACAACAGTAGAAGCTGCAGGTGTCCAGAGGATGTGTCCAGCAGTGTGCTTCCATCAGGGGACCTGATGTGTGACT
GCCCTCAGGGCTATCAGCTCAAGAACAATACCTGTGTCAAAGAAGAGAACACCTGTCTTCGCAACCAGTATCGCT
GCAGCAACGGGAAGTGTATCAACAGCATTGTTGGTGGTGTGACTTTGACAACGACTGTGGAGACATGAGCGATGAGA
GAAACTGCCCTACCACCATCTGTGACCTGGACACCCAGTTTCGTTGCCAGGAGTCTGGGACTTGTATCCCACTGT

1949/2825
FIGURE 1727B

CCTATAAATGTGACCTTGAGGATGACTGTGGAGACAACAGTGATGAAAGTCATTGTGAAATGCACCAGTGCCGGA
GTGACGAGTACAACCTGCAGTTCGGGCATGTGCATCCGCTCCTCCTGGGTATGTGACGGGGACAACGACTGCAGGG
ACTGGTCTGATGAAGCCAACCTGTACCGCCATCTATCACACCTGTGAGGCCTCCAACCTCCAGTGCCGAAACGGGC
ACTGCATCCCCCAGCGGTGGGCGTGTGACGGGGATACGGACTGCCAGGATGGTTCCGATGAGGATCCAGTCAACT
GTGAGAAGAAGTGCAATGGATTCCGCTGCCCCAACGGCACTTGCATCCCATCCAGCAAAACATTGTGATGGTCTGC
GTGATTGCTCTGATGGCTCCGATGAACAGCACTGCGAGCCCCCTCTGTACGCACTTCATGGACTTTGTGTGTAAGA
ACCGCCAGCAGTGCCCTGTTCCACTCCATGGTCTGTGACGGAATCATCCAGTGCCGCGACGGGTCCGATGAGGATG
CGGCGTTTGCAGGATGCTCCCAAGATCCTGAGTTCACAAAGGTATGTGATGAGTTCCGTTTCCAGTGTCAGAATG
GAGTGTGCATCAGTTTGATTGGAAGTGCGACGGGATGGATGATTGCGGCGATTATTCTGATGAAGCCAACCTGCG
AAAACCCACAGAAGCCCCAACTGCTCCCGCTACTTCCAGTTTCGGTGTGAGAATGGCCACTGCATCCCCAACAA
GATGGAATGTGACAGGGAGAACGACTGTGGGACTGGTCTGATGAGAAGGATTGTGGAGATTCACATATTCTTC
CCTTCTCGACTCCTGGGCCCTCCACGTGTCTGCCCAATTACTACCGCTGCAGCAGTGGGACCTGCGTGATGGACA
CCTGGGTGTGCGACGGGTACCGAGATTGTGCAGATGGCTCTGACGAGGAAGCCTGCCCTTGCTTGCAAACGTCA
CTGCTGCCTCCACTCCCACCAACTTGGGCGATGTGACCGATTGAGTTTGAATGCCACCAACCGAAGACGTGTA
TTCCCAACTGGAAGCGCTGTGACGGCCACCAAGATTGCCAGGATGGCCGGGACGAGGCCAATTGCCCCACACACA
GCACCTTGACTTGCATGAGCAGGGAGTTCCAGTGCGAGGACGGGGAGGCCTGCATTGTGCTCTCGGAGCGCTGCG
ACGGCTTCCTGGACTGCTCGGACGAGAGCGATGAAAAGGCCTGCAGTGATGAGTTGACTGTGTACAAAGTACAGA
ATCTTCAGTGGACAGCTGACTTCTCTGGGGATGTGACTTTGACCTGGATGAGGCCCAAAAAAATGCCCTCTGCAT
CTTGTGTATATAATGTCTACTACAGGGTGGTTGGAGAGAGCATATGGAAGACTCTGGAGACCCACAGCAATAAGA
CAAACACTGTATTAAAGTCTTGAAACCAGATACCACGTATCAGGTTAAAGTACAGGTTTCACTGTCTCAGCAAGG
CACACAACACCAATGACTTTGTGACCCTGAGGACCCAGAGGGATTGCCAGATGCCCTCGAAATCTCCAGCTGT
CACTCCCCAGGGAAGCAGAAGGTGTGATTGTAGGCCACTGGGCTCCTCCCATCCACACCCATGGCCTCATCCGTG
AGTACATTGTAGAATACAGCAGGAGTGGTTCCAAGATGTGGGCCTCCAGAGGGCTGCTAGTAACTTTACAGAAA
TCAAGAACTTATTGGTCAACACTCTATACACCGTCAGAGTGGCTGCGGTGACTAGTCGTGGAATAGGAACTGGA
GCGATTCTAAATCCATTACCACCATAAAAGGAAAAAGTGATCCACCACCAGATATCCACATTGACAGCTATGGTG
AAAAATTATCTAAGCTTACCCTGACCATGGAGAGTGATATCAAGGTGAATGGCTATGTGGTGAACCTTTTCTGGG
CATTTGACACCCACAAGCAAGAGAGGAGAAGCTTTGAACTTCCGAGGAAGCATATTGTACACAAAAGTTGGCAATC
TGACAGCTCATACTCCTATGAGATTTCTGCCTGGGCCAAGACTGACTTGGGGGATAGCCCTCTGGCATTGAGC
ATGTTATGACCAGAGGGGTTTCGCCCACCTGCACCTAGCCTCAAGGCCAAAGCCATCAACCAGACTGCAGTGGAAT
GTACCTGGACCGGCCCCCGGAATGTGGTTTATGGTATTTTCTATGCCACGTCCTTTCTTGACCTCTATCGCAACC
CGAAGAGCTTGACTACTTCACTCCACAACAAGACGGTCAATTGTGAGTAAGGATGAGCAGTATTTGTTTCTGGTCC
GTGTAGTGGTACCCTACCAGGGGCCATCCTCTGACTACGTTGTAGTGAAGATGATCCCGGACAGCAGGCTTCCAC
CCCGTCACCTGCATGTGGTTCATACGGGCAAAACCTCCGTGGTCAATCAAGTGGGAATCACCGTATGACTCTCCTG
ACCAGGACTTGTGTATGCAATTGCAGTCAAAGATCTCATAAGAAAGACTGACAGGAGCTACAAAGTAAATCCC
GTAACAGCACTGTGGAATACACCCTTAACAAGTTGGAGCCTGGCGGGAAATACCACATCATTGTCCAACCTGGGGA
ACATGAGCAAAGATTCCAGCATAAAAATTACCACAGTTTCATTATCAGCACCTGATGCCTTAAAAATCATAACAG
AAAATGATCATGTTCTTCTGTTTTGGAAAAGCCTGGCTTTAAAGGAAAAGCATTTTAATGAAAGCAGGGGCTATG
AGATACACATGTTTGATAGTGCCATGAATATCACAGCTTACCTTGGGAATACTACTGACAATTTCTTTAAATTT
CCAACCTGAAGATGGGTCTAATTACACGTTACCGTCCAAGCAAGATGCCTTTTGGCAACCAGATCTGTGGGG
AGCCTGCCATCCTGCTGTACGATGAGCTGGGGTCTGGTGCAGATGCATCTGCAACGCAGGCTGCCAGATCTACGG
ATGTTGCTGCTGTGGTGGTGCCATCTTATTCCTGATACTGCTGAGCCTGGGGTGGGGTTTGCCATCCTGTACA
CGAAGCACCGGAGGCTGCAGAGCAGCTTACCGCCTTCGCCAACAGCCACTACAGCTCCAGGCTGGGGTCCGCAA
TCTTCTCCTCTGGGGATGACCTGGGGGAAGATGATGAAGATGCCCTATGATAACTGGATTTTTCAGATGACGTCC
CCATGGTGATAGCC**TGA**AAGAGCTTTTCTCACTAGAAAACCAATGGTGTAAATATTTTATTTGATAAAGATAGTT
GATGGTTTATTTTAAAGATGCACTTTGAGTTGCAATATGTTATTTTATATGGGCCAAAAACNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNNNGAATGAATAAACTTTGTAGTAATCAACTGTGAACCTTCAAACCAGGTTGATTTTA
GTAACCCAATTGCTTTGATTTGACATTAATGTAGTCTTACAGGGCTGTGCTTGCTGGGCATGCTTTTACGTCTGT
GAGATAATTTCCGTTTCAGTAAATTGGCCAATCTTTTATTTTCTAAGACACAGAAATGTATTTAATAAAAAACCT

1950/2825
FIGURE 1727C

CGAGAGAGTGATGGGTGGAACCCCTTCTCCTTGAAAGTGTGTACAGATATTCCATTTTGTGGATATAGTTTAT
AGGAAAGTGTGTGGATGTATTATGGCGGAAGGTTTCTTTATGTTATTTTGTAAATTTATTGGGACTCTGTGTAAG
GCCAGGCTTTAGTGGTCATTAGACACCACATGTGTTATGAGCCCCCTTACCCATAGGGTTGGGGGTGGGAAGAGAA
GCATATTTTTTTTGGCATTCCGGAAGCAATCCATTTTTATTCACTTGTGTGTCATGTAATGGTCTTTGGCAGGAGA
GAGCACTGAGTCATTGCTGGAGTTCAGTTCAACAGAGCTGCAGCTTGGGAAGCCCTGTAAGCCCACAGCTTCCTC
TCTTATATTAATTGATGGAATTTTACTGTATGTGCCTCTGTACAAGATGTAGCTTTGAGAGCTACAAAATGATAA
CACTGCTTTATTACACACTGGTTTCATTGTCAATTGCAAAAACCTTACCCTGGTTGTGGGGGAGAGTTCTAGATCTG
TGCCATGATCCATACACTGGCTAATAGAGTACATAATTTTTCCATTTTCCATTTTTTGTGTTTTACTTACTACTGA
AGGATCTCAGATGTAAAATTATGTATTTGGTTTGAGATGGCCACTTATTGTCCTTAAAAATCCATACTGATATAT
GCAGTCATTTTGAATTGGACAGTGCCTTCTCTTTTTTTTTCTCCTCTTCTTCCATCTCCCTCACCCATGCCCCCA
CCCAATCTAAAGAGACAGTGTGTACATTCTCATAGAGATAGAGAAGATCTAAAAAGTTGAGACTACTCAATCCA
GTTAACAACAGCAGGAGCACTAGAGTTTGTTCAATTTATTCTCTCTGTAAAACAAGCTGTGCTTTTTTTTCTTCTGC
CTTTAAAAATGCCACCCGTGTATTCAAACCATGGCCACTTGATACTTATGTAGAATCCATCGTGGGCTGATGCAAG
CCCTTTATTTAGGCTTAGTGTGTGGGCACCAATGTGAGCATCGTTGTGACTTGTGCTGTATGATTCTCACTGA
AGAATTTCTTTTTCAGCCAAGAAGCAGTGAGGTCTGGGAATATTCCAAAGTCATGCTCTGAATATGTGTCCTTGA
CGTGCAAGCTTTGTAAAACCCCATCCCCGCTTAGGTGCGAGGCATCACCTTCTCACAAGTGTTTAGTTTCTTTTA
ACCACAAGTATCATTTCTTGGGTGATAATATAGTTTCACTTACTTAGGGATTGTTTAGAAAACAAAGAAAGAGCC
AATTAATTTTTTTAGTTTTTTGAAATTTTTATTTATATGTATACTTAGATGAGTATTTTAAGCTGTGACCTTTAG
TTTGCCATACGGGTAGGACTGTATTTTCATGTTAACAACCTGGTGGTAATGATAAGCCTTCTTCTAGCGTATTTTCT
CTTCTTTTCTGTCACTTTTCTAAGTTTTTTTTTTTTTAAAGACTGGAATTTTTTTTTGGCTTTATCTTGTCTTACCGT
AGAGATTTGTTTCAAACTCTAAGCCCTACCACCTCCCCCTTAAATAAGCTCTTTAAATAGTTGAATCATTAACAAC
CTGGTGGGAGGCAAGTCATTTAATTGAACCACTAGGAAGTGATTTTTCTTTTCTTTTCTGCCAAGCTTTTTGGTG
GCATTTGTAAAAGCTGATATAAAAGGCTCTGAGATGTTATTTTCAGTTATTCCATAGGCAAGCCTTTTTACAGAG
CATATGTCTCCAGTTGGCAGCTTGAGATATTTCCGAGCATCCGGTTCTAGCTACCAGTGCCTCCCAATGCTTAGT
GCACAGTACTGTAGACTGGCCATCACCCCTCTCCTTGGAAAAATGCCACTGTGCTGTTTGAAAAAAGCAGCCTTT
TAGGGCTAGAGTATTTTTATATAAACAGAAGAGCTAAGTTCTGAAGACTAAGCTAGATAGCTGCAGCTATATGTA
AATTGTATATTTTTATGAACTTTTGAAGCACACACTCCTGTTTCCCTCTGTGTAGCTTTGTGGGGATTTTCATGTA
TATATGCTGTCTGAAAGAATCCAGAGGTTGGAGTGCCAATAGAAAATGAAAACAAATGCCTTGTACTACAGGCAG
CCTCTGAAGGTGACCACATAACTGTCTTCACTGTGACCAATCGGAGTCCCTGCTTGCTTGTGAAGAAGGGGCTTT
TGTACCTTGTGTGAGATGCCACCTCAGAAGTTCACACTGTGCAGGAAAAAGGTTTTATTCTCTCCTGGCATAACAT
TAGAATGTCAGATGCCTGCATCCATGTGGACCACGATGGGCCTCTAAAAATTGGTGGGCAGGGGGTTTTGCTTATG
AGTTTTCTCTGGAAACCGATTTTACTCCTGGATGTATTGAATGCCCTTGAGCTTTATGAGATACGAGTCCACAT
GGATAAAATGTTAGAGAGTGGAGTTCTACAGAGGATTCCAGGAAGAGGCCATGTCTGTGCAGTCCCTAGTTCAGAG
CAGGTGAGAAGCTCCAGGAACCTACTGGCTACCTTGACAAGCTGGGTAAATAGTTATCATTCTGGGTAACCTGGTTG
AAACTCTGACTTTTTGGACAAGTAATTCCTGGGGTCTGTCTTTGGTAGCATCACCAGGGATATTTGGGTGGGACA
GACAGAAGACACACAGCTGCCTGTTCTCTCCTGCCCATCATGTTTGGCCCACTAGATGAAGCTGTACTCAGCAAT
TTAGGGAATGTAACCTTCTCAGAACTGGCCATTTTCAGGGGAAGCTTGGGAGAGCAATAGTATGGTGAGCCCCCT
TAGAGATGAGCGCCTACTCCTTCTTGGCGAATGCTGCCTTCAGATGCTTACCAAGTGGTCACTGCATCTAGTAAG
ATTATATTTCCAGTACACTTCCTTAGGGCAGAAACACCATCCTATCAGGTTTGGTCACTCCCTTCTTCATGAAGG
GAGTCATGGGGAATTCCTGAAAATTTTCTTCTTCTGCAGACAGTTGGATGAGTCCCTTAGAGAAGGCATCCAGA
GACATAACTAACTGAATATCATCCCATATTGATTTTAGGAATTGACTCTAAACTCTGTGCAGAACTTGTGTTT
GGGATTGTATCTTGACATTCTGTTGTGTTATTTTTCTTAACTGGAGTGTGTGCTGCCTTTTCAAGGTACAAATTTT
GTGTAATAAAAGCCAGTGCATTAAGTTTATATAGACTACTTTCTATGCAAGACTGAGATATGGAATAGATAGGAA
GAGATATGTACTGCTGGGTACATGGACAGTAAGTGTGTTTTTTCAGATGGAGTACCAGCACCGAAAAATGGGTGAGG
GAGGATGGGTGTATGTATGTTTCTGCCCCACTAATTTTGGAGCAGCCATATTATGAATTAATCGTCACAGCCAAAG
TAATAACCCAAGAATGGTATGAGTTTCATGTGTAATAGCTCAAATGGAATAAGCATGAATGCTGGAGTGGACCAT
TATCCTCAAATATTCTATGTCACTTCTCATTTAAAGACTCTTGTTATGAACATATTAGAACTTTAGGCCAAAATCA
AAAGTATTTGCGGCAAAATAAAGGCCTATTCTACTCTTATTTAAAGTGAAACACTGTATACTTGTCTCTCCAA

1951/2825
FIGURE 1727D

AGCGAAATTAAGTATTTATAATTTCAATTGCCTCGATAAGTTTCCAAGTCACTGAAATCTGCTGAAGGTTTTACT
GTATTGTTGCACAACCTTTAAGATAATTTTTGTCTCAATGTCAACTTTTTTCACTGAATAAAAAATTTAACTGGGTC
AAGAAAACACCTCTTTGAAAATCCACTGTCTCTGTGTGTCTCGAGCTGTTCTTTAGAGCGCAATAAAGATGGCTG
ACGCAGTCTCCAAACCC

1952/2825
FIGURE 1728

AAS TVFPLAWLSLILWGFSLGAGPRISQRWYFGDTCLHLTEPALLASRCTFSPGGGATCSSVRPNMATRSSRRES
RLPFLFTLVALLPALCEVWTQRLHGGSAPLPQDRGFLVVQGDPRELRLWARGDARGASRADEKPLRRKRSAL
QPEPIKVYQVSLNDSHNQMVVHWAGEKSNVIVALARDSLALARPKSSDVYVSYDYGKSFKKISDKLNFGLGNRS
EAVIAQFYHSPADNKRYIFADAYAQYLWITFDFCNTLQGFSSIPFRAADLLLHASKASNLLLGFDRSHPNKQLWKS
DFGQTWIMI QEHVKSFSWGIDPYDKPNTIYIERHEPSGYSTVFRSTDFQSRNQEVILEEVRDFQLRDKYMFAT
KVVHLLGSEQQSSVQLWVSFGRKPMRAAQFVTRHPINEYYIADASEDQVFVCVSHSNNRTNLYISEAEGLKFSLS
LENVLYYSPGGAGSDTLVRYFANEPFADFHRVEGLQGVYIATLINGSMNEENMRSVITFDKGGTWEFLQAPFTG
YGEKINCELSQGCSLHLAQRLSOLLNLQLRRMPLSKESAPGLIATGSGVGNLASKTNVYISSAGARWREALP
GPHYTTWGDHGGIITAI AQGMETNELKYSTNEGETWKTFFIFSEKPVFVYGLLTEPGEKSTVFTIFGSNKENVH
SWLILQVNATDALGVPC TENDYKLWSPSDERGNECLLGHKTVFKRRTPHATCFNGEDFDRPVVSVNCSCTREDYEC
DFGKMSEDLSLEVCVPDPEFSGKSYSPVPCPVGSTYRRTRGYRKISGDTCSGGDVEARLEGEVLVPCPLAEENE
FILIYAVRKSIYRYDLASGATEQLPLTGLRAAVALDFDYEHNCLYWSDALDVIQRLCLNGSTGQEVII NSGLE
TVEALAFEPQLLYWVDAGFKKIEVANPDGDFRLTIVNSSVLDRPRALVLPQEGVMFWDWGDLPKGIYRSNMDGS
AAYHLVSEDVKWPNGISVDDQWIYWTDAYLECIERITFSGQQRSVILDNLPHYAI AVFKNEIYWDWSQLSIFR
ASKYSGSQMEILANQLTGLMDMKIFYKGKNTGSNACVPRPCSLLC LPKANNRSRSCPCEDVSSSVLP
SGDLMCDCPQGYQLKNNTCVKEENTCLRNQYRCSNGNCINSIWWCDFDND CGDMSDERNCPTTICDLDTQ
FRQESGTCIPLSYKCDLEDDCGDNSDESHCEMHQCRSDEYNCSSGMCIRSSWVCDGDND CRDWSDEANCTAI
YHTCEASNQCRNGHCIPQRWACDGD TDCQDGSDEDPVNCEKKCNGFRCPNGTCIPSSKHCDGLRDCSDG
SDEQHCEPLCTHFMDFVCKNRQQLCFHSMVCDGIIQCRDGSDEDAAFAGCSQDPEFHKVCD
EFGFQCQNGVCISLIWKCDGMDDCGDYSDEANCENPTEAPNCSRYFQFRCENGHCIPNRWKC
DREND CGDWSDEKDCGDSHILPFSTPGPSTCLPNYYRCSSGTCVMDTWVCDGYRDCADGSD
EEACPLLANVTAASTPTQLGRCDRFEFECHQPKTCIPNWKRCDGHQDCQDGRDEANCP THS
TLTCMSREFQCEEDGEACIVLSERCDGFLDCSDESDEKACSDELTVYKVQNLQWTADFSGDVTLT
WMRPKKMPSCASCVYNVYYRVVGESIWKLTETHSNKTNIVLKVLPD TTYQVKVQVQCLSKAHNTN
DFVTLRTPEGLPDAPRNQLSLPREAEGVIVGHWAPP IHTHGLIREYIVEYSRSGSKMWASQRAAS
NFTEIKNLLVNTLYTVRVA AVTSRGIGNWSDSKSITTIGKVIPPPDIHIDSYGENYLSFTLT
MESDIKVN GYVNLFWAFDTHKQERRTLNFRGSILSHKVGNLTAHTSYEISAWAKTDLGD
SPLAFEHVMTRGVRPPAPSLKAKAINQTAVECTWTGPRNVVYGIFYATSFLDLYRNP
KSLTTS LHNKTVIVSKDEQYLFLVRVVVPYQGPSSDYVVVKMIPDSRLP PRLHVHTGKTSVVI
KWESPYDSPDQDLLYAI AVKDLIRKTD RSYKVKSRNSTVEYTLNKL EPGGKYHIIVQLGNMSKD
SSIKITTVSL SAPDALKIITE NDHVLLFWKSLALKEKHFNESRGYEIHMFD SAMNITAYL
GNTDNFFKISNLKMGHNYTFTVQARCLFGNQICGEPAILLYDELGSGADASATQAARST
DVA AVVVPILFLILLSLGVGFAILYTKHRR LQSSFTAFANSHYSSRLGSAIFSSGDDLG
EDDEDAPMITGFSDDVPMVIA

1953/2825
FIGURE 1729

CGAGTGACCTCGCGATCTGGCCCGGCTCCCGCTCGTCGCAACAGCGTGACTACAGGGTATGGCGGGGTCCGGGCA
CTGTGCGGCTGGACCCCCAGTTCTGGGGCCACGCCGCGGAACCGCTTACTGCTGCAGCTTTTGGGGTCGCCCCGC
CGCCGCTATTACAGTCTTCCCCCGCATCAGAAAGGTTCCATTGCCTTCTCTTTCCCCCACAATGCAGGCAGGCACC
ATAGCCCGTTGGAAAAAAAAGAGGGGGACAAAATCAATGAAGGTGACCTAATTGCAGAGGTTGAAACTGATAAA
GCCACTGTTGGATTTGAGAGCCTGGAGGAGTGTTATATGGCAAAGATACTTGTGCTGAAGGTACCAGGGATGTT
CCCATCGGAGCGATCATCTGTATCACAGTTGGCAAGCCTGAGGATATTGAGGCCTTTAAAAATTATACACTGGAT
TCCTCAGCAGCACCTACCCCAAGCGGCCCCAGCACCAACCCCTGCTGCCACTGCTTCGCCACCTACACCTTCT
GCTCAGGCTCCTGGTAGCTCATATCCCCCTCACATGCAGGTACTTCTTCTGCCCCTCTCTCCACCATGACCATG
GGCACAGTTCAGAGATGGGAAAAAAAAGTGGGTGAGAAGCTAAGTGAAGGAGACTTACTGGCAGAGATAGAACT
GACAAAGCCACTATAGGTTTTGAAGTACAGGAAGAAGGTTATCTGGCAAAAATCCTGGTCCCTGAAGGCACAAGA
GATGTCCCTCTAGGAACCCCACTCTGTATCATTGTAGAAAAAGAGGCAGATATATCAGCATTGCTGACTATAGG
CCAACCGAAGTAACAGATTTAAAACCACAAGTGCCACCACCTACCCCAACCCCGGTGGCCGCTGTTCTCCAACCT
CCCCAGCCTTTAGCTCCTACACCTTCAGCACCTTGCCAGCTACTCCTGCTGGACCAAAGGGAAGGGTGTTTGT
AGCCCTCTTGCAAAGAAGTTGGCAGTAGAGAAAGGGATTGATCTTACACAAGTAAAAGGGACAGGACCAGATGGT
AGAATCACCAAGAAGGATATCGACTCTTTTGTGCCTAGTAAAGTTGCTCCTGCTCCGGCAGCTGTTGTGCCTCC
ACAGGTCTGGAATGGCACCAAGTTCCTACAGGTGTCTTCACAGATATCCCAATCAGCAACATTGCTCGGGTTATT
GCACAGCGATTAATGCAATCAAAGCAAACCATACTCATTATTACCTTTCTATCGATGTAAATATGGGAGAAGTT
TTGTTGGTACGGAAGAAGTTAATAAGATATTAGAAGGGAGAAGCAAAATTTCTGTCAATGACTTCATCATAAAA
GCTTCAGCTTTGGCATGTTTAAAAGTTCCCGAAGCAAATTTCTTCTGGATGGACACAGTTATAAGACAAAATCAT
GTTGTTGATGTCAGTGTTGCGGTCAGTACTCCTGCAGGACTCATCACACCTATTGTGTTTAAATGCACATATAAAA
GGAGTGGAACCATTGCTAATGATGTTGTTTCTTTAGCAACCAAAGCAAGAGAGGGTAAACTACAGCCACATGAA
TTCCAGGGTGGCACTTTTACGATCTCCAATTTAGGAATGTTTGGAAATTAAGAATTTCTCTGCTATTATTAACCCA
CCTCAAGCATGTATTTTGGCAATTGGTGCTTCAGAGGATAAACTGGTCCCTGCAGATAATGAAAAGGGTTTGAT
GTGGCTAGCATGATGTCTGTTACACTCAGTTGTGATCACCGGGTGGTGGATGGAGCAGTTGGAGCCAGTGGCTT
GCTGAGTTTAGAAAGTACCTTGAAAAACCTATCACTATGTTGTTGTAACCTCAAGAATTTCTAACTCTCCC
AGGTCACACTGATTCTTTTACAAGATATTTATATGTTATTAAACAGGTGGTTGCTTTTTATTTTAAACCAGTT
ATTTTTATTATTGAGTCTGCTCAGATAAGTTATTTATAATGGGCATTACTGAATTTTTTAAATGCCGATTACACC
CAAATATTGTGCACATTTAATAATCAGACACCAGATTTTGTAGCTCTGTACTCCTAATTAAGGGACATGTATGTGG
CCTTGCCCTAGCCCTTTGGTGATAAGTACTTCTCTAGGAAATGTACGATAGGTAGAATTGTGGTTCCCTAAAGAC
AAGTACATAAAGGTGACCCTGATGAAACCTTGAAGTTCTGAAATTTAACTGCCTAAAATGTTCTCCTTAGATGTG
AGAGAAAGAGAAATCAGAAAAATTAATTCTCTTGGGGGAAGGGCTTGAATTGAAGCTTTACTTTAGAATTTAGCC
CTGGTTTGAAATTTCCATTACATGATCTTGGTTTATCATCGATGGGAAGGGTAGAAAACCTCAAGGAAAATAAG
TGAAATTTTAAAAGTCAGCATTTTCTTAGACCTCTTCAGCTGATTGTTTATTTTCTATGAATTCTGTACTCAA
ATTACACATTTGTTTAAATAAATATCCACACAAATCTCAGTTACATCAAGTAGCTGGTTTATATTTAGATTATC
TCAAGTAGGGGGGAATAACCATGTGTAGGAATT

1954/2825
FIGURE 1730A

GAGGAAAAACAGTACAGATGGGCCAAGAGCTTCAAGGAGAAGTAGTTATAATAATTACAGATCAGTACGGAAATC
AGATTCAAGCATTTTCACCAAGTTCTTTATCTTCTTTGTCAATTGCTGGGGTTGGACTTGATAGCTCAAATTTGA
AAACAACCTTTTCAGGAAAACACACAGAGTATAAGTGTAAGAGGCATCAAATTTATTCCAGGTCTCTCTGGAAATA
AGGATCTTTGTTTTACTTGGCGTGAGTTTTCTGACTTTATTTCGAGTGCAACTAATTTCTGGACCTCTCTGCTAAAC
TTCTCCTTATAGACTGGCCAGAATAAAGGAGTCCATTCCAGTGATTAATGGAAGAGATTTACAGAACCCTATTA
TTGTTCAACTTTGTGATCAGTGGGATAATCCAGCACCGGTACAACATGTTAAAATAAGTCTTACAAAAGCTAGCA
ATTTAAAGCTCATGCCTTCAAACCAACAGCATAAAACAGATGAGAAAGGCAGGGCTAATTTGGGAGTATTCAGTG
TTTTTGCCCTAGGGGAGAGCATACTCTTCAGGTAAAGCCATCTATAACAAAAGTATCATAGAAGGACCTATAA
TTAAGTTAATGATTCTTCCAGACCCAGAAAAACCCGTTCTGCTCAATGTTAAATATGACAAAGATGCATCCTTCT
TAGCAGGGGGTCTTTTCACTGATTTTATGATTAGTGTTATTTCTGAAGATGACAGTATCATTAAAAACATTAATC
CAGCACGTATTTCCATGAAAATGTGGAAGCTGTCTACCAGTGGGAACCGACCCCCAGCAAATGCAGAAACATTTA
GTTGTAATAAAAATAAAGATAATGACAAAGAAGATGGCTGCTTCTATTTTCAGGGATAAAGTAATTCCTAATAAAG
TGGGGACATATTGTATCCAGTTTGGTTTTATGATGGATAAAACAAATATTCTCAACAGTGAACAGGTTATAGTTG
AAGTCTGCCTAATCAACCTGTGAAGTTAGTACCTAAAATTAAACCACCTACACCAGCTGTTTCAAATGTTGCT
CAGTTGCCAGTAGGACCTTGGTCAGAGATCTACATCTTAGTATCACGGATGACTACGACAACCATACTGGAATTG
ATTTGGTTGGCACTATAATAGCCACCATTAAAGGCTCTAATGAGGAAGATACTGATACCCACTTTTTATTGGGA
AAGTTAGAACACTTGAATCCCTTTCGTGAATGGTTTCGGCTGAAATCATGAGTCTGGTGCTGGCAGAAAGTAGTC
CTGGAAGGGATAGTACTGAATATTTTATTGATTTTGAAGCCCGCTACCACTTTTATCAAGAACCTTAGAACCAT
ATATCCTACCGTTTCATGTTTTACAATGATGTTAAGAAGCAGCAACAAATGGCAGCACTTACAAAAGAAAAGGACC
AATTATCTCAGTCTATTGTTATGTATAAAAGTTTATTTGAAGCCAGCCAACAGCTTCTTAATGAAATGAAATGTC
AAGTTGAAGAAGCAAGATTAAGAGAGGCCCAATTGCGAAATGAACTAAAAATACATAATATTGACATTCTTACAA
CACAACAGGTGCCACACATTGAAGCACTTCTGAAAAGAAAAGCTATCAGAACAAGAAGAACTGAAGAAAAAACCTA
GAAGATCGTGTAATCTTCCAACTATACTAAAGGCAGTGGAGATGTTTTGGGAAAGATTGCACATCTAGCACAAA
TTGAAGATGATAGAGCTGCGATGTTTATTTCTTGGCATCTGGCAAGTGACATGGACTGTGTAGTCACCCTAACCA
CTGACGCTGCACGTCGTATCTATGATGAAACCCAAGGTCGTCAGCAGGTGTTGCCCTTGATTCTATTTACAAGA
AGACTCTTCCAGATTGGAAAAGATCTCTACCTCATTTCGAAATGGAAAATTGTATTTTAAACCCATTGGAGATC
CAGTCTTTGCTCGAGACTTGTTAACATTTCCAGATAATGTAGAACATTGTGAAACAGTATTTGGTATGCTGTTAG
GAGACACCATTAATTTGGATAATCTGGATGCGGCCAATCATTATAGAAAAGAGGTTGTTAAAATTACACACTGTC
CTACACTGCTGACCAGAGATGGAGATCGAATTGGAAGTAATGGAAAGTTTGGGGGCCTTCAGAATAAAGCTCCTC
CAATGGATAAACTTCGGGGAATGGTATTTGGAGCTCCAGTTCAAAACAGTGTCTGATCTTAGGGGAACAAATAG
ATCTTCTTCAGCAGTATCGTTCTGCTGTGTGCAAACTAGACAGTGTGAATAAGGATCTTAACAGTCAATTAGAGT
ACCTTCGCACTCCGGATATGAGGAAGAAAAAGCAAGAACTTGATGAACATGAGAAAAATCTCAAACCTAATAGAGG
AAAAACTAGGTATGACTCCCATACGTAAGTGTAATGACTCATTGCGTCATTCACCAAAGGTTGAGACGACAGATT
GTCCAGTTCCTCCTAAAAGAATGAGACGAGAAGCTACAAGACAAAATAGGATTATAACCAAACAGATGTATGAAG
AGGTGACAGAGAGAAGAGGCCATTGGTCTCAGTAAGAATGCCCTGCTTTCTGCATCTCTGTTTCAGAAGACCAAG
AGGGTGACTTACCAGACTGAGTATTTCTGGGGACAATACAAGTACCTGGGCATGAATTTCCATTTTCGATTTCAGAT
GGGACTGGAAACAACCATTCAATTTTATGAATCTTACTGGACATTATGGATTTACTGGAATTATTCCAGACATTA
TGCCCTTTGGTTGTCACTACCTTGCAAATGTGTAAGAGGAAAAATGTGCTAATGTGGCAGTGACTGTAAACTGGC
ACATGGCATTTATTAATCCTGAAGAAAAGTACATGTACTATTTTTCAGTATAAATATAATGAACATGTGAGAACT
ATTTCTTGAAAACCTTTTTATTACTTTTTCGCTGAATTTATTTAACAAAGATGTTTTGTCTTTTGTGTAAGGGAGG
TTCTAGAGGCTAGATGTTTAAATTGTAAATATGTGAGGAAACTCAATGCAGAATTCAGGATAAAAAATTTTAAAGC
ACAGGTATTTGGGAATTGAAATGTTAAGATACCCAGAAACAACATTAAATCAATGAGTGAACCTTGTGACAGTGGA
GCATTTCAAATTTCAAAGACTTATCCTGTGTGTGTGTGTGTGTGTATATATATATATATATATATAAATATATATA
TATAAATATTCAGCAGCACCAAGTTTTATAACTATTGTTTGTGTTGACTTTATTAATACTAGAATATGTAGTCTC
AGCCTTAATTTTACATTTACATTATTTTGTAAATTTTTTATTACTATTTTAAAGGGGTTAAAGAGAACATACATTC
TCACATTAGTGTACTTTCTGGTAGAAAGTTGCTGCAAAAACATTTGAAATGTATATTAACCTAATGTATGTCATA
TATATGTCTTTGTGTAAGTTCAAGACTATTGATCTGTGAAGTTATTTTGTAAAGGACATACATTTGGTAAGTAAGT
TTGTGTCCAGGAAATGTATGTGTTTTTAAACCCTTTCTAAATATGCAGGCCATTAATAAATAAGATTGTTTCTT